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PERFORMANCE EVALUATION
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FOR PCM TELEMTRY

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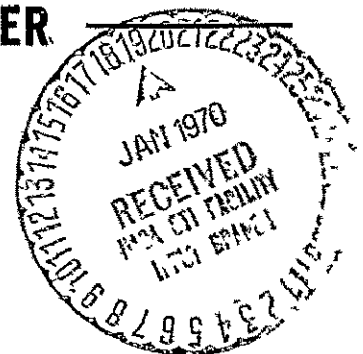
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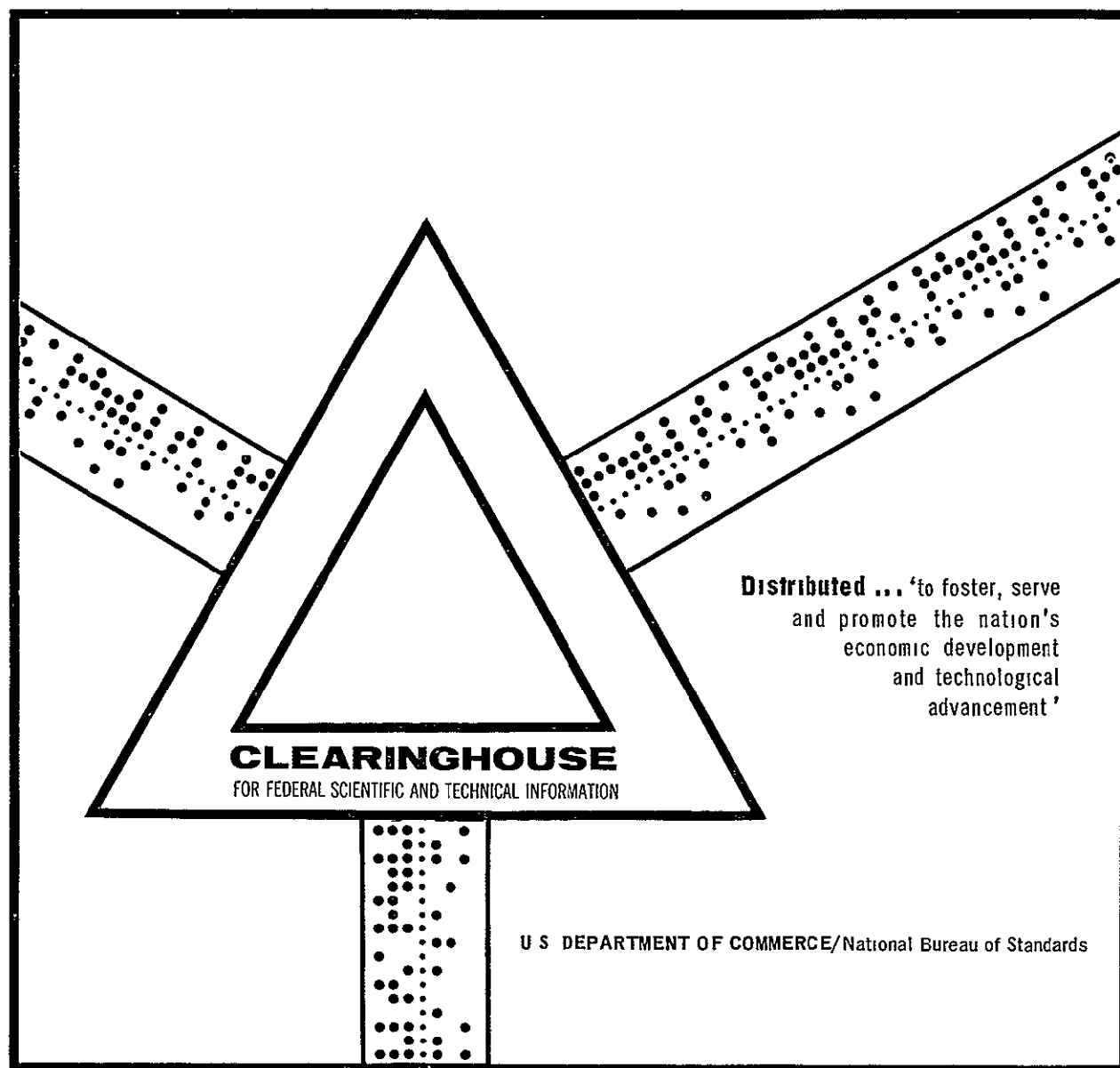
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PERFORMANCE EVALUATION OF FRAME-SYNCHRONIZATION CODES FOR PCM TELEMETRY

Jesse L Maury, et al

Goddard Space Flight Center
Greenbelt, Maryland

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FRAME-SYNCHRONIZATION CODES FOR PCM TELEMETRY

Jesse L Maury
Mission and Trajectory Analysis Division
Frederick J Styles
Information Processing Division

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SUMMARY

This document presents the results of a study to measure the performance of any binary bit pattern, from 7 to 40 bits long, as a spacecraft telemetry frame-synchronization code. The study was an extension of the work on the Goddard Space Flight Center (GSFC) PCM Telemetry Standard Frame-Synchronization Codes which the authors presented at the National Telemetry Conference in June 1964. A computer program, the Evaluator, was written to analyze code performance in terms of percent of data lost and mean time to acquire frame synchronization as a function of telemetry frame length and bit-error rate of the received telemetry signal. This document defines the problem, describes the frame-synchronization system, outlines its mathematical analysis, and specifies the Evaluator's output. The Appendix contains the graphical output of the Evaluator for the GSFC PCM Telemetry Standard Codes. This information is intended to aid the telemetry format designer in optimizing his selection of frame-sync code length and the equipment operator in determining the best errors-allowed setting for the ground-station frame synchronizer, based on quantitative evidence rather than the heretofore used "best guess."

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PERFORMANCE EVALUATION OF FRAME-SYNCHRONIZATION CODES FOR PCM TELEMETRY

INTRODUCTION

In June 1964, the authors presented a paper at the National Telemetry Conference titled "Development of Optimum Frame-Synchronization Codes for Goddard Space Flight Center PCM Telemetry Standards" (reference 1), describing their analysis of the criteria for perfecting frame-synchronization codes and the development of a high-speed computer program for isolating the optimal frame-sync codes of any length N from the 2^N possible patterns of that length. They listed the frame-sync codes, 7 to 30 bits long, which resulted from that study and which have since been made a part of the GSFC PCM Telemetry Standard (reference 2). The authors also mentioned the desirability of a further study to determine code lengths for spacecraft telemetry to optimize data-channel use. This document presents the results of that study.

BACKGROUND

Previously, frame-sync code length was selected primarily on the basis of simplicity of implementation in the spacecraft and adaptation to the telemetry format. Adequacy of frame-sync codes for synchronizing specific length frames under anticipated signal-to-noise conditions was based more on the intuitive feelings of the designer than on quantitative evidence. Therefore, the work on optimal frame-sync codes was extended to the determination of code length for spacecraft use and number of errors to be allowed by the code recognizer at the ground station as functions of telemetry frame length and bit-error rate (or signal-to-noise ratio) of the received PCM signal.

SYNCHRONIZATION SYSTEM

The frame-sync recognition process considered here is a simple search-lock process whereby the sync-code recognizer, initially in the search mode, looks for the frame-sync code in the data stream on a bit-by-bit basis, permitting a selected number of errors to compensate for the effect of noise in transmission and reception. When either a true or false recognition is made, the number of allowed errors is changed and the recognizer, now in the lock mode, waits for a full data frame before

looking for the code pattern again. If a recognition does not occur after exactly one frame, the recognizer returns to its bit-by-bit search with the original number of allowed errors. If, however, the code pattern again appears (within the lock mode allowed-error tolerance), the recognizer remains in the lock mode for another frame, after which a frame-sync indication is again expected. Note that this system does not provide for increasing the number of bit times over which the recognizer expects the frame-sync indication in the lock mode, i.e., it is a one-bit-aperture system.

In comparison to certain existing frame synchronizers, this mechanism is extremely simple. The use of three-mode (search-acquire-lock) systems, multibit apertures, flywheeling, etc., is frequently justified as necessary to overcome the bit-slippage problem. However, it is now common practice to attack the bit-sync problem in the bit synchronizer and to assume ideal bit sync at the frame synchronizer. Under these circumstances, the simple search-lock system is preferred from both the operational and the analytical viewpoints, as demonstrated in the following paragraphs.

ANALYSIS

Certain assumptions must be made to properly develop the mathematical model of the frame-sync system previously described. Consistent with present state-of-the-art equipment, the individual bits of the data stream are assumed to be synchronized before entering the frame synchronizer. The telemetry data are assumed to be random with each bit having an equal probability of being either a one or a zero. Each major repetitive data block (frame) is preceded and followed by a multibit frame-sync code. Because of noise encountered during transmission and reception, a certain probability exists that any bit will be changed. Although the presence of these bit errors does not affect the randomness of the data, compensation must be made for changes in the received frame-sync code in order to achieve synchronization. As previously described, the frame synchronizer can be set to allow any number of errors in each of its two modes.

The mathematical analysis used here is mainly derived from that of Williard (reference 3). Its development will not be repeated except to present the parameters and formulas used. The list of terms (page 13) gives the parameters used, together with defining formulas where appropriate. Note that Williard's symbology has been listed parenthetically when it differs from that of the authors.

Although Williard has assumed that all nonsync code-length patterns have the same false-sync probability (that of completely random bits), the authors have modified this approach. To include the effects of a specific frame-sync code, the probability of false sync in the overlap region, F_ϕ , as developed in reference 1, has been included in the calculation of the probability of false sync over an entire frame, F_t . Figure 1 shows the data stream between two consecutive frame-sync codes to consist of two overlap regions and a random region, β . For this reason, Williard's parameter, b (the number of wrong patterns between two consecutive true codes), is replaced in the calculation of F_t by β (the actual number of wrong pattern positions made up exclusively of random data bits), and an additional factor, $(1 - 2 F_\phi)$, is inserted to account for false sync in any overlap position.

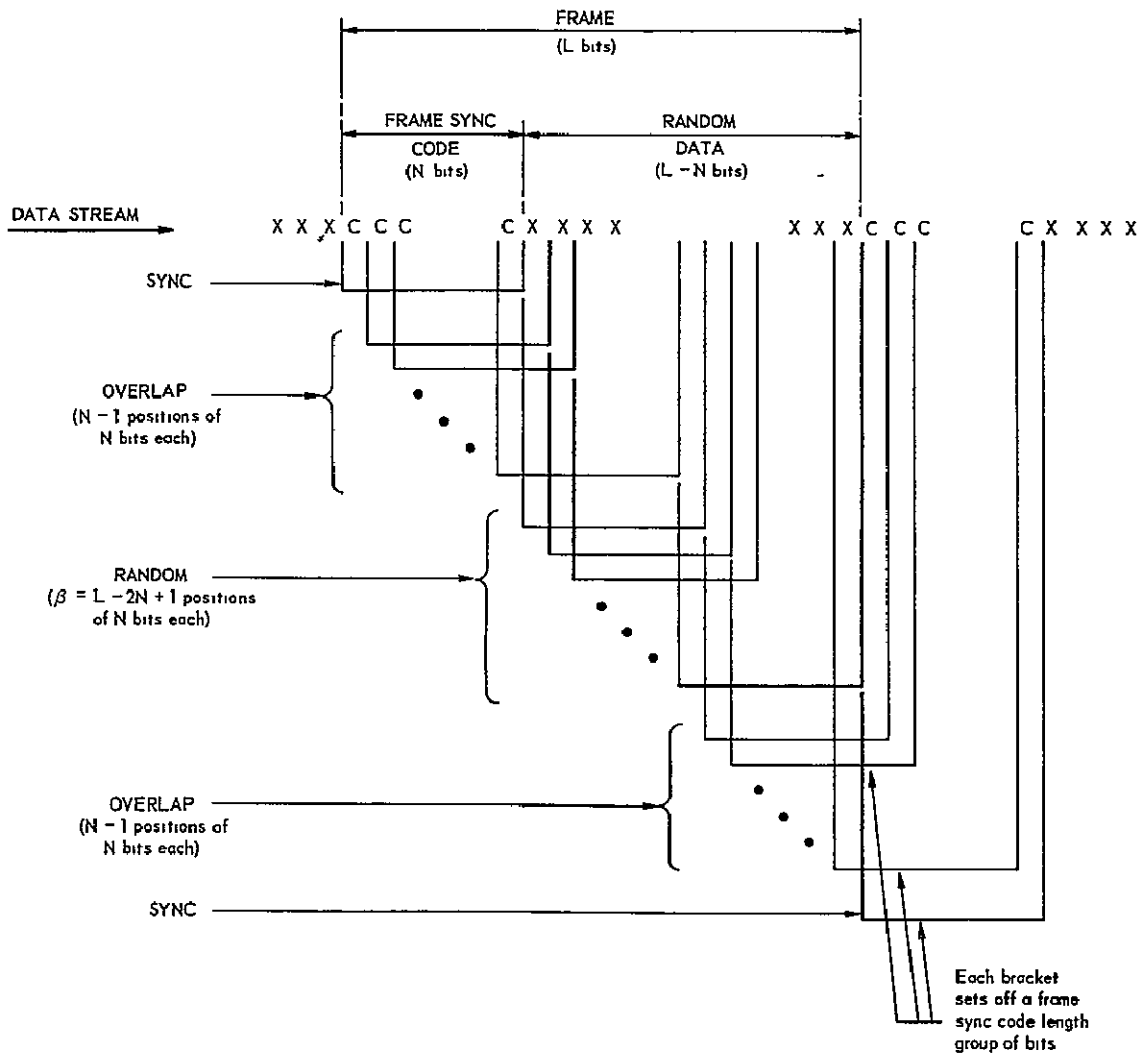


Figure 1 Telemetry Data Stream

THE EVALUATOR

When the foregoing formulation was completed, it was translated into a computer program (the Evaluator) and run on an IBM 7094 computer to measure the performance of any selected frame-sync code operating within the varying constraints of a telemetry channel

Frame-sync code performance is measured as

A = average number of frames to acquire true frame sync

λ = percent data lost because of loss of frame sync

The telemetry channel is defined in terms of the variables

N = frame-sync code length

η = bit-error rate of the telemetry channel

β = random data region length

ϵ = number of errors allowed in the search mode

ϵ' = number of errors allowed in the lock mode

Output of this program is in the form of a line-printer listing. Also available, however, is the option to plot on a Cal Comp 570 the performance measures A and λ as functions of ϵ' with ϵ as a running variable. For each selected frame-sync code, a curve is plotted for each combination of the η and β values listed in Table 1.

Table 1
Values for Which A and λ Curves Are Plotted

Variable	Value
η	0 1000, 0.0100, 0 0010, 0 0001
β	20, 50, 100, 200, 500, 1000, 2000, 5000, 10,000, 20,000

GSFC STANDARD CODES EVALUATION

Because the Evaluator was primarily intended for determining their performance, the codes of reference 1 comprised the initial input to this program. Both printer listing and graphical output were obtained and all meaningful plots for these codes are included in the Appendix. Because of their recommended use in PCM telemetry, all the graphical data are presented. Using these curves, the design engineer or ground-station operator can locate the parameters which define his own particular problem and "cut" the data in a manner appropriate to the solution of that problem.

For example, suppose it is desired to determine the frame-sync code to be used in a telemetry format made up of 24 8-bit words and a $(24 \times 8 =)$ 192-bit frame length. Worst-case anticipated bit-error rate is 10^{-1} ($\eta = 0.1000$) and percent data lost must not exceed 10^{-2} . In addition, because of the short pass time over the ground station, acquisition time is limited. Assuming that no other requirements prevent the use of one of the GSFC PCM Telemetry Standard Codes, the selection of the 8-, 16-, or 24-bit GSFC Standard Code is now required according to its performance under the prescribed conditions.

Figures 2, 3, and 4 present the performance of the 8-, 16-, and 24-bit codes under the specified bit-error rate for a frame length of $(200 + 2N - 1)$ or approximately 192 bits. Extrapolating, the $N = 8$ plot shows that to achieve a percent data lost, λ , less than 10^{-2} , an average number of frames to acquire, A , greater than 30 would be required. With $N = 16$, an acquisition time of slightly more than 2 frames is achievable with λ less than 2×10^{-3} using an (ϵ, ϵ') setting of (1,8). For $N = 24$ and λ less than 8×10^{-3} percent, acquisition time is slightly less than 2 frames with (ϵ, ϵ') equal to (3,9), but this is a small return in acquisition time for the additional 4.2 percent of the telemetry format it requires. On this basis, selection of the $N = 16$ GSFC Standard Code can be made and the efficacy of the simple search-lock system is apparent.

As another example, consider the OGO telemetry format: an 1152-bit frame which consists of 128 9-bit words and which uses the $N = 27$ GSFC Standard Frame-Sync Code. The (ϵ, ϵ') setting to be used by the ground-station equipment operator is required. Figure 5 is the Evaluator plot for $N = 27$, $\beta = 1000$, $(L = 1000 + (2 \times 27) - 1 = 1053)$, $\eta = 0.1000$. Figure 6 differs only in that $\eta = 0.0100$. If it is agreed that the worst-case bit-error rate for usable data is somewhere between these two η values and that data lost because of loss of frame sync should be kept

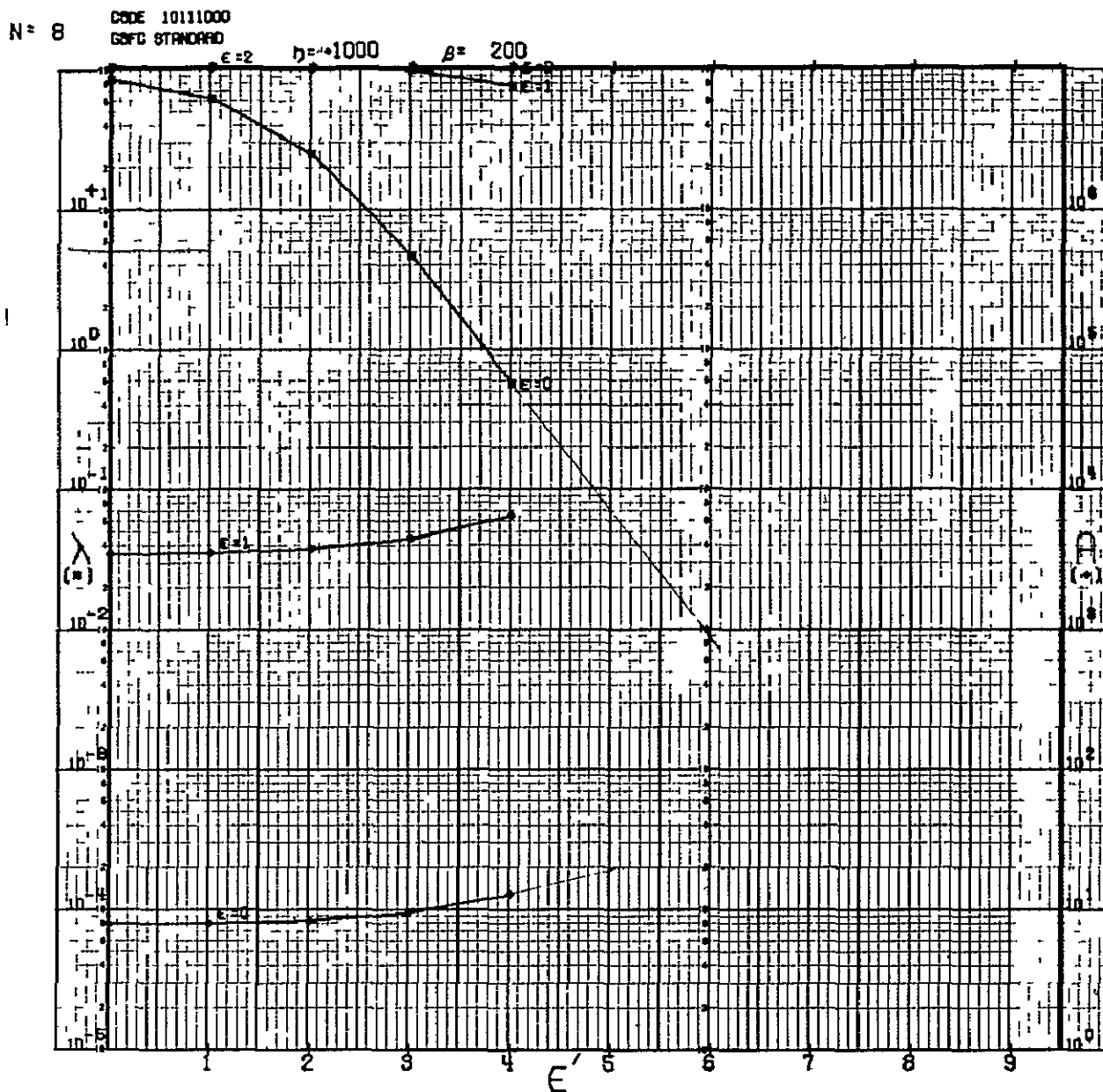


Figure 2 A and λ for $N = 8$, $\eta = 0.1000$, $\beta = 200$

below a tenth of 1 percent, ($\lambda < 10^{-1}$), then the (ϵ, ϵ') setting should be (3,9), giving an average acquisition time of less than 1.5 frames—again, more than adequate performance.

Figures 7 and 8 show $N = 27$, $\beta = 1000$, for $\eta = 0.0010$ and $\eta = 0.0001$, respectively. At these lower error rates, the selected (3,9) setting is seen to be quite satisfactory. In general, the optimum (ϵ, ϵ') values at the highest bit-error rate also give the best performance at

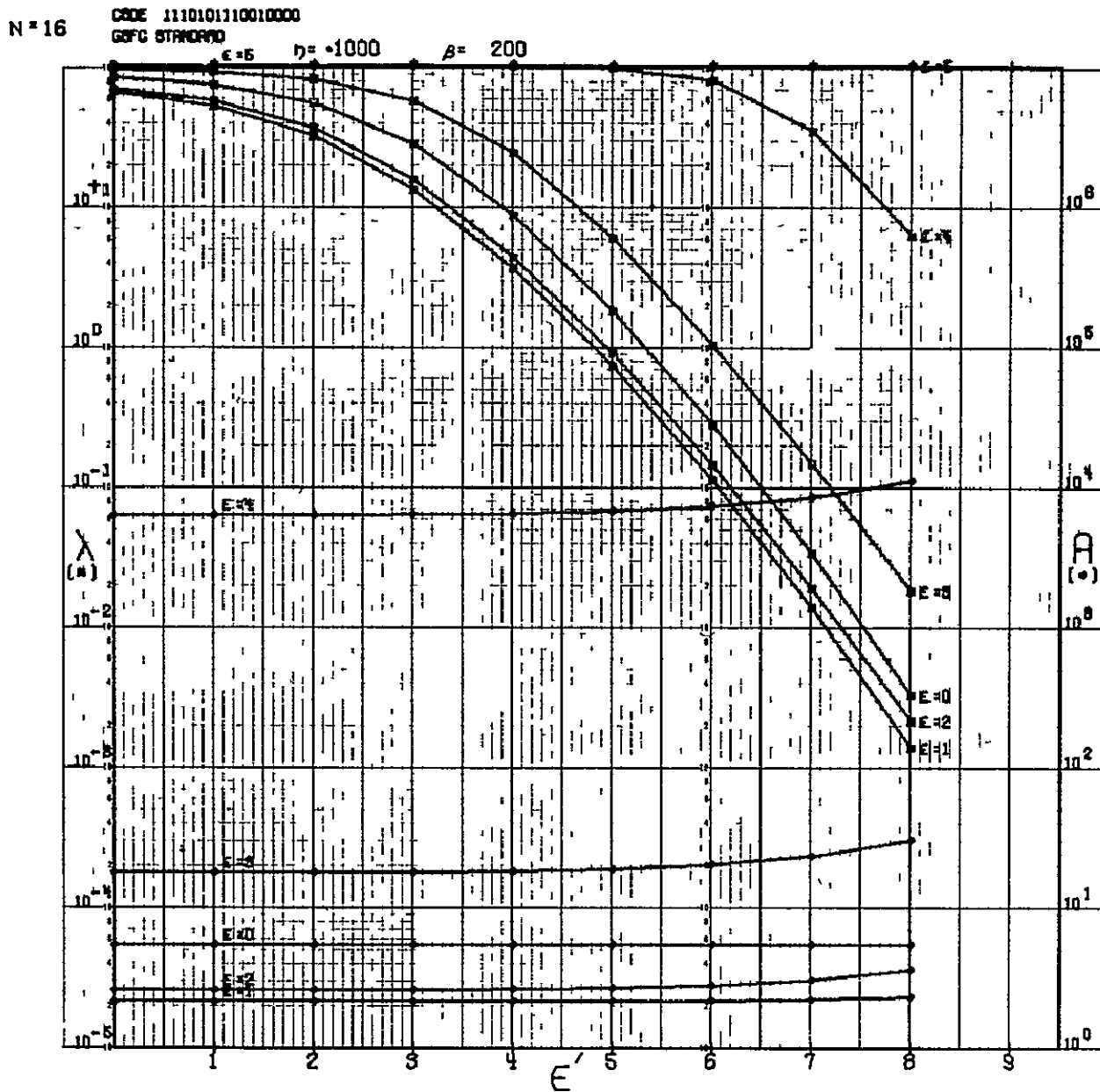


Figure 3 A and λ for $N = 16$, $\eta = 1000$, $\beta = 200$

the lower values of η . Note also the reversal in curvature of the λ -curve for $\epsilon = 8$ (Figures 7 and 8). This and similar discontinuities on the plots in the Appendix are attributable to a loss of significance in the floating-point computer calculations, they are not caused by a breakdown in the mathematical model. Fortunately, these irregularities occur in an area of the data which holds little or no information relevant to optimum performance of frame-sync codes.

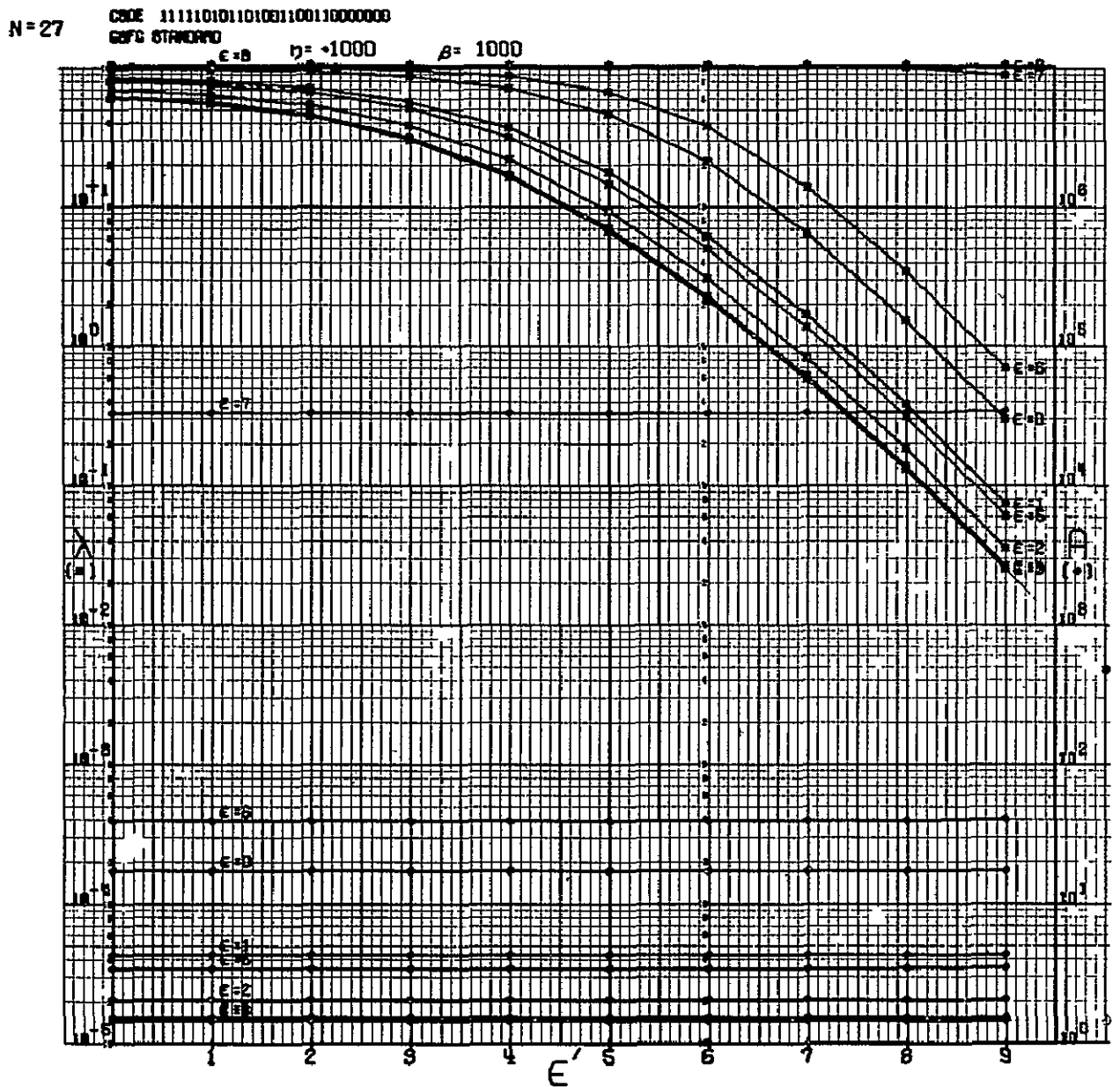


Figure 5 A and λ for $N = 27$, $\eta = 1000$, $\beta = 1000$

previously described. Thus, for a system which, because of parity, bit-transition density, etc., cannot use a standard code, alternatives can readily be constructed, run in the Evaluator, and retained or discarded, based on their computed performance.*

*Readers interested in evaluating proposed or presently operating frame-sync codes should contact the authors at NASA/GSFC, Code 553, Greenbelt, Maryland 20771

N = 27

CODE 111101010100100100000000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.0100$

$\beta = 1000$

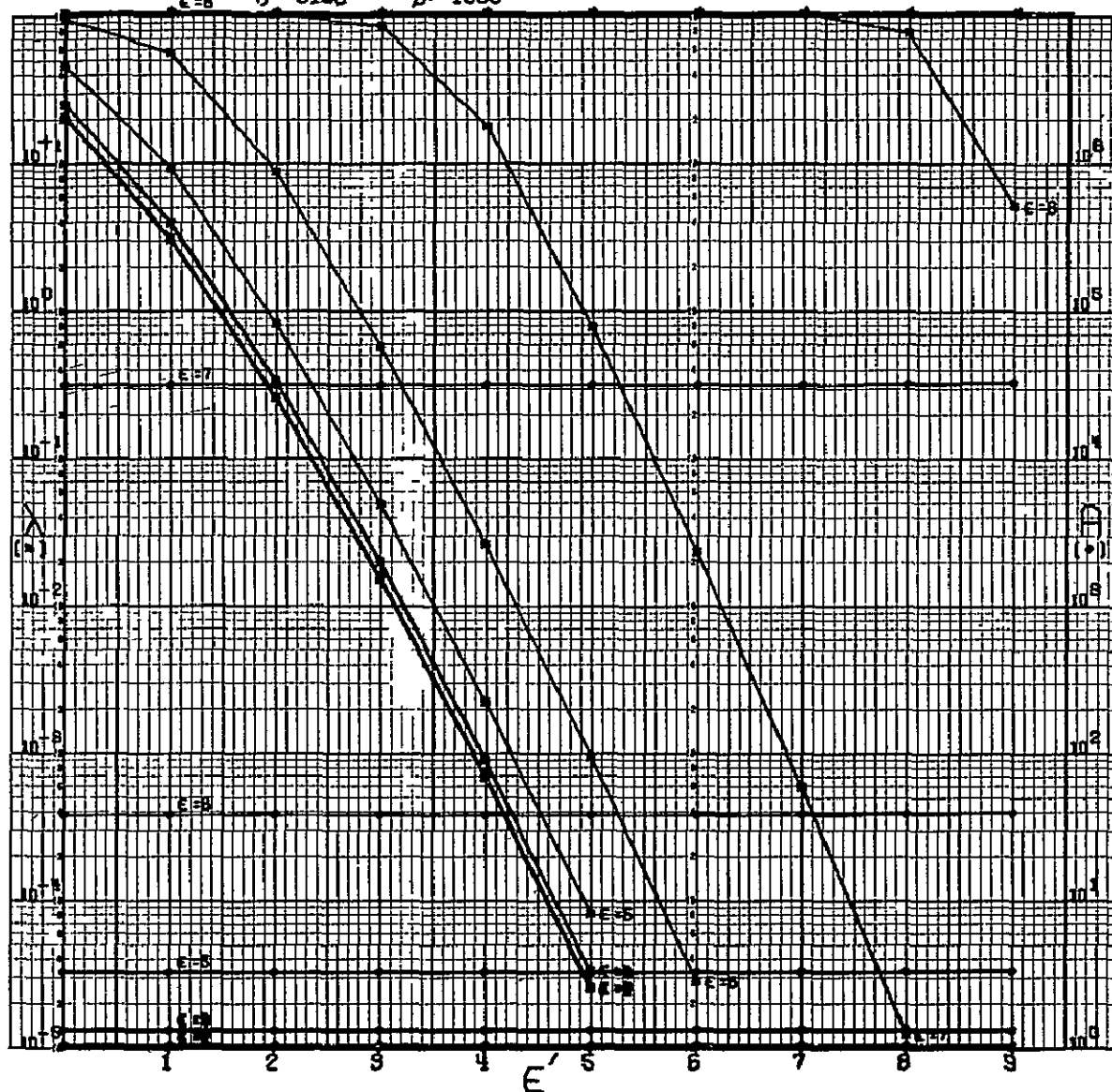


Figure 6 A and λ for $N = 27$, $\eta = 0.0100$, $\beta = 1000$

ACKNOWLEDGMENTS

The mathematical analysis of the synchronization system used in this document was derived from that of Merwin W. Williard of Symetrics, Inc., Satellite Beach, Florida. Charles K. Capps, GSFC, Code 553, was responsible for the programming required for the graphical output for this study.

N = 27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 0.0010$

$\beta = 1000$

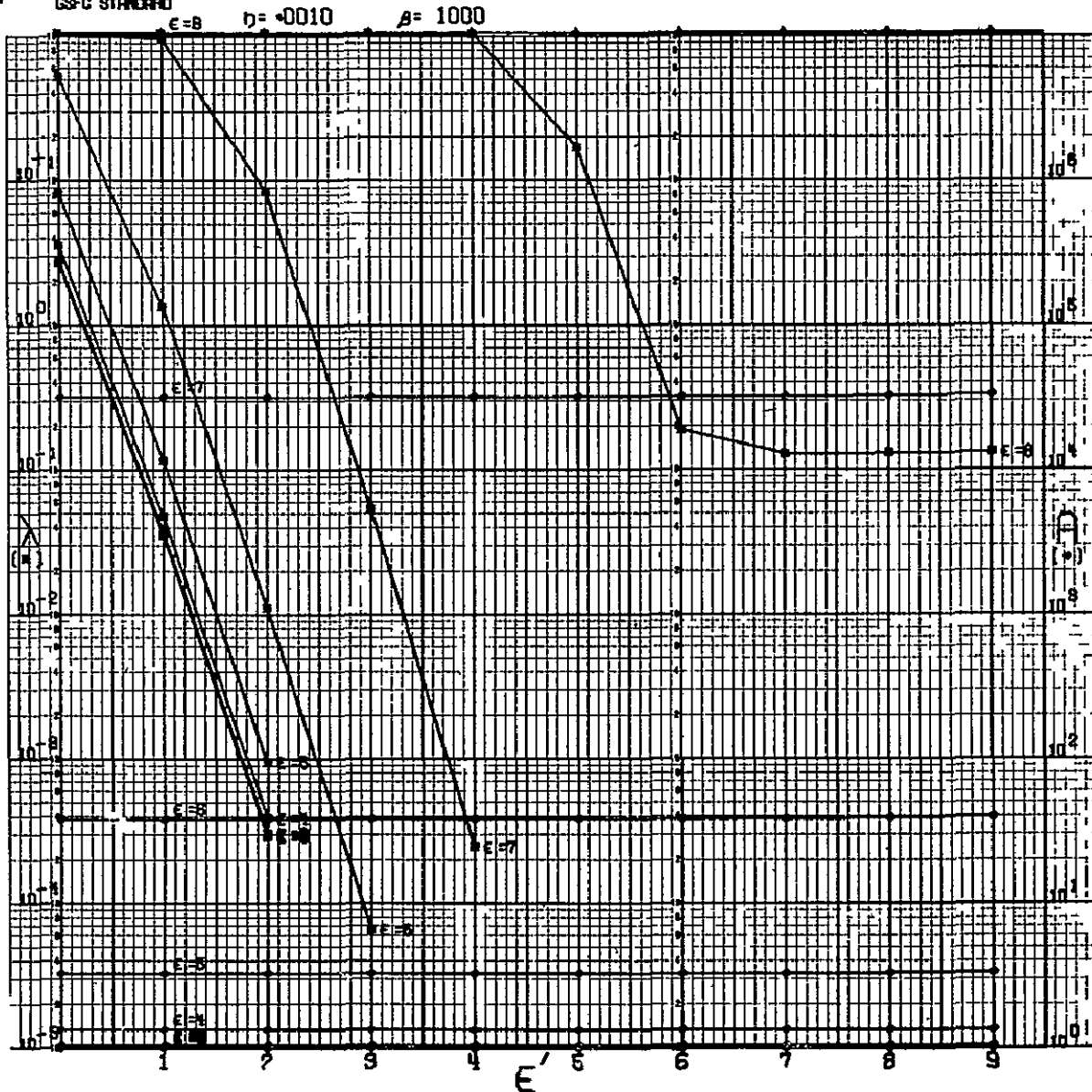


Figure 7 A and λ for $N = 27$, $\eta = 0.0010$, $\beta = 1000$

REFERENCES

1. Maury, Jesse L., Jr., and Styles, Frederick J. Development of Optimum Frame-Synchronization Codes for GSFC PCM Telemetry Standards. Proceedings of the National Telemetry Conference, Section 3-1, June 1964, pp. 1-10

N = 27

CODE 111110101101001100110000000

GSFC STANDARD

$\epsilon = 8$

$\eta = 0.0001$

$\beta = 1000$

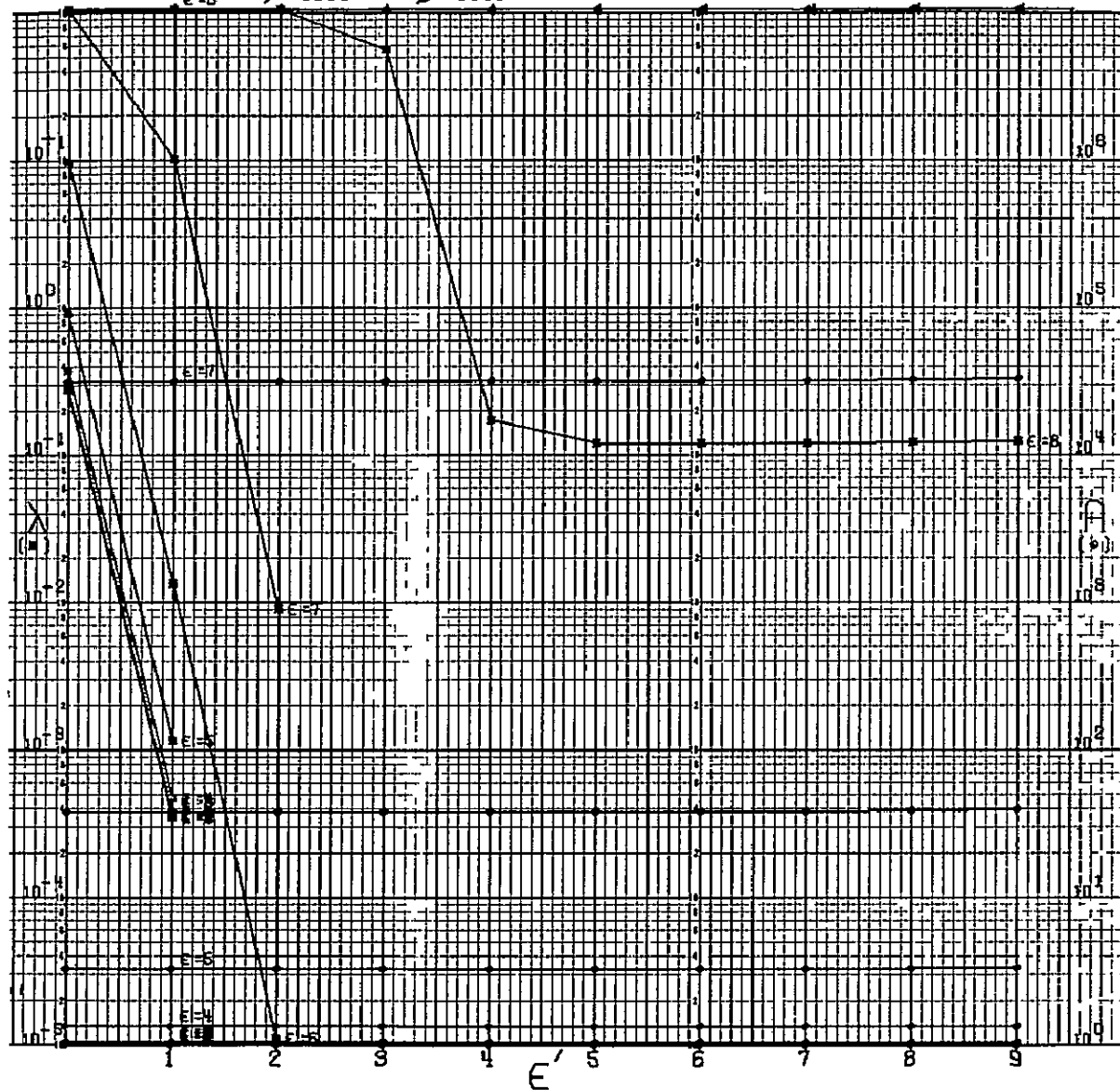


Figure 8 A and λ for $N = 27$, $\eta = 0.0001$, $\beta = 1000$

2. Anon. Pulsecode Modulation Telemetry Standard, Appendix A PCM Frame-Synchronization Codes. Aerospace Data Systems Standards, Part I, Section 1, GSFC X-560-63-2, January 1963
3. Williard, Merwin W. Mean Time to Acquire PCM Synchronization Technical Papers on PCM Synchronization, Symetrics, Inc., Satellite Beach, Florida, 1962

TERMS USED IN TEXT*

N (n)	Frame-sync code length in bits (see Figure 1)
η (E)	Bit-error rate due to noise
ϵ (e)	Number of errors allowed by the frame-sync code recognizer in the search mode
ϵ' (e')	Number of errors allowed by the frame-sync code recognizer in the lock mode
β	Random data region length in bits (see Figure 1)
ϕ	Overlap region length in bits (see Figure 1) $\phi = N - 1$
L	Frame length in bits (useful in considering actual frame length for which the frame-sync code performance is plotted) $L = 2\phi + \beta + 1$ <p style="text-align: center;">also</p> $L = \beta + 2N - 1$
F_ϕ	Probability of at least one false frame-sync code recognition over the entire ϕ overlap region of a single frame**
f_β (P_1)	Probability of false recognition in a single code-length group of random data bits

$$f_\beta = \frac{1}{2^N} \sum_{r=0}^{\epsilon} \binom{N}{r}$$

**Williard's symbology (reference 3) has been entered parenthetically

**This parameter is developed at length in reference 1

F_β Probability of false recognition in any of the β code-length groups of random data bits in a single frame

$$F_\beta = 1 - (1 - f_\beta)^\beta$$

$F_T (P_t)$ Probability of at least one false recognition in a single frame

$$F_T = 1 - (1 - 2F_\phi) (1 - f_\beta)^\beta$$

$P_T (P_c)$ Probability of a true recognition (in the sync position) in a single frame

$$P_T = \sum_{r=0}^{\epsilon} \binom{N}{r} \eta^r (1 - \eta)^{N-r}$$

$S (M)$ Average number of frames to a recognition, true or false

$$S = \frac{1}{F_T + P_T (1 - F_T)}$$

$P_S (I)$ Probability that the recognition after S frames will be a true recognition

$$P_S = \frac{P_T (1 - F_T)}{F_T + P_T (1 - F_T)}$$

$R_F (J)$ Average number of false patterns which must be seen by the recognizer in the lock mode before it can decide that it has false sync

$$R_F = \frac{1}{1 - f'_\beta}$$

where

$$f'_\beta = \frac{1}{2^N} \sum_{r=0}^{\epsilon'} \binom{N}{r}$$

R_T (K) Average number of true codes which will be seen by the recognizer in the lock mode before noise errors cause rejection of true sync

$$R_T = \frac{1}{1 - P_T'}$$

where

$$P_T' = \sum_{r=0}^{\epsilon'} \binom{N}{r} \eta^r (1 - \eta)^{N-r}$$

A (L) Average number of frames before true sync is acquired

$$A = \frac{S + R_F (1 - P_S)}{P_S}$$

λ (D_L) Percent data lost because of loss of frame sync

$$\lambda = \frac{100 A}{A + R_T}$$

APPENDIX

PERFORMANCE CURVES FOR THE GSFC PCM TELEMETRY STANDARD FRAME-SYNCHRONIZATION CODES

A = average number of frames to acquire true frame sync

λ = percent data lost because of loss of frame sync

N = frame-sync code length

η = bit-error rate of the telemetry channel

β = random data region length

ϵ = number of errors allowed in the search mode

ϵ' = number of errors allowed in the lock mode

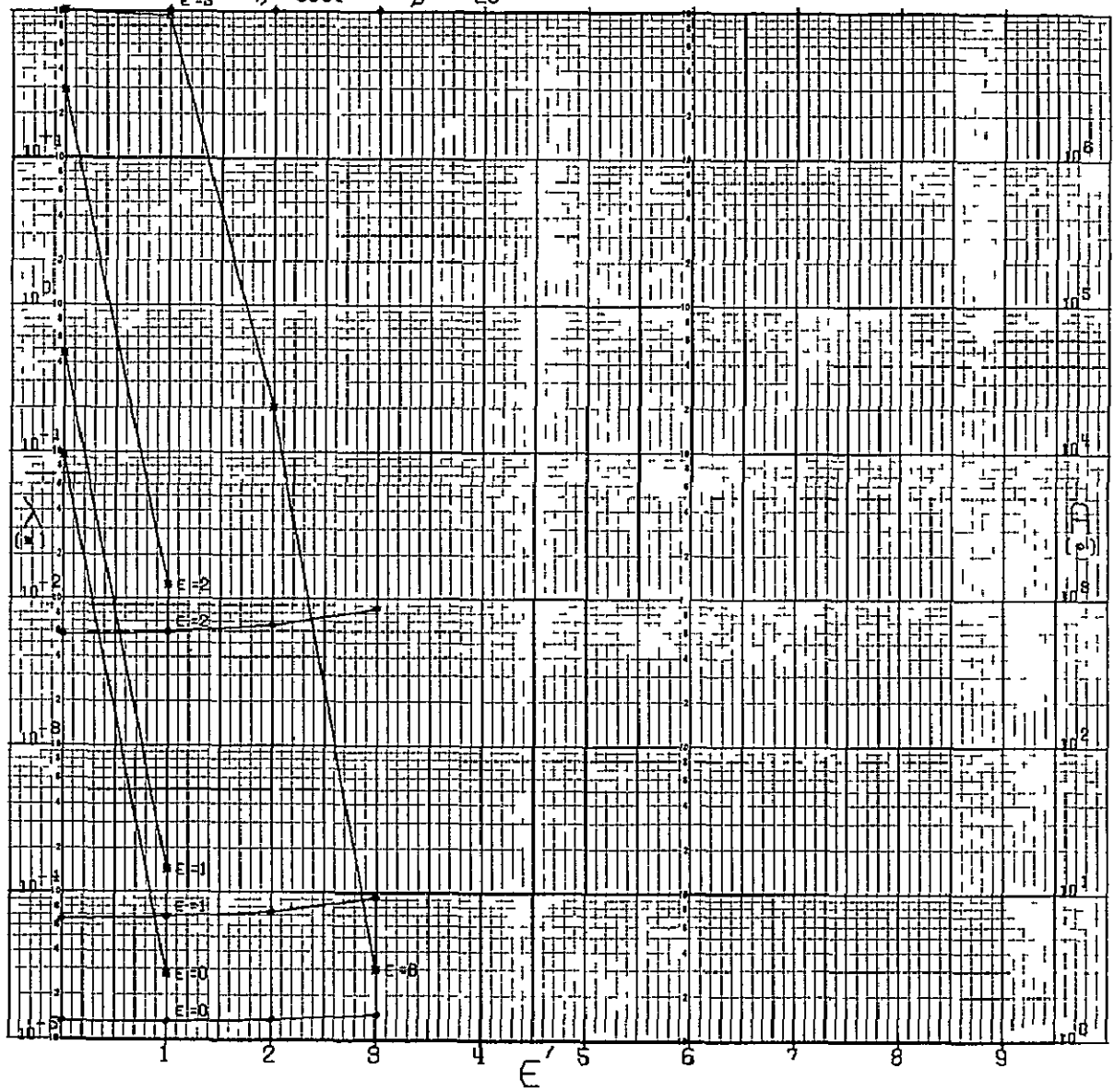
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GSFC STANDARD

$\epsilon = 8$ $\eta = +0001$

$\beta = 20$



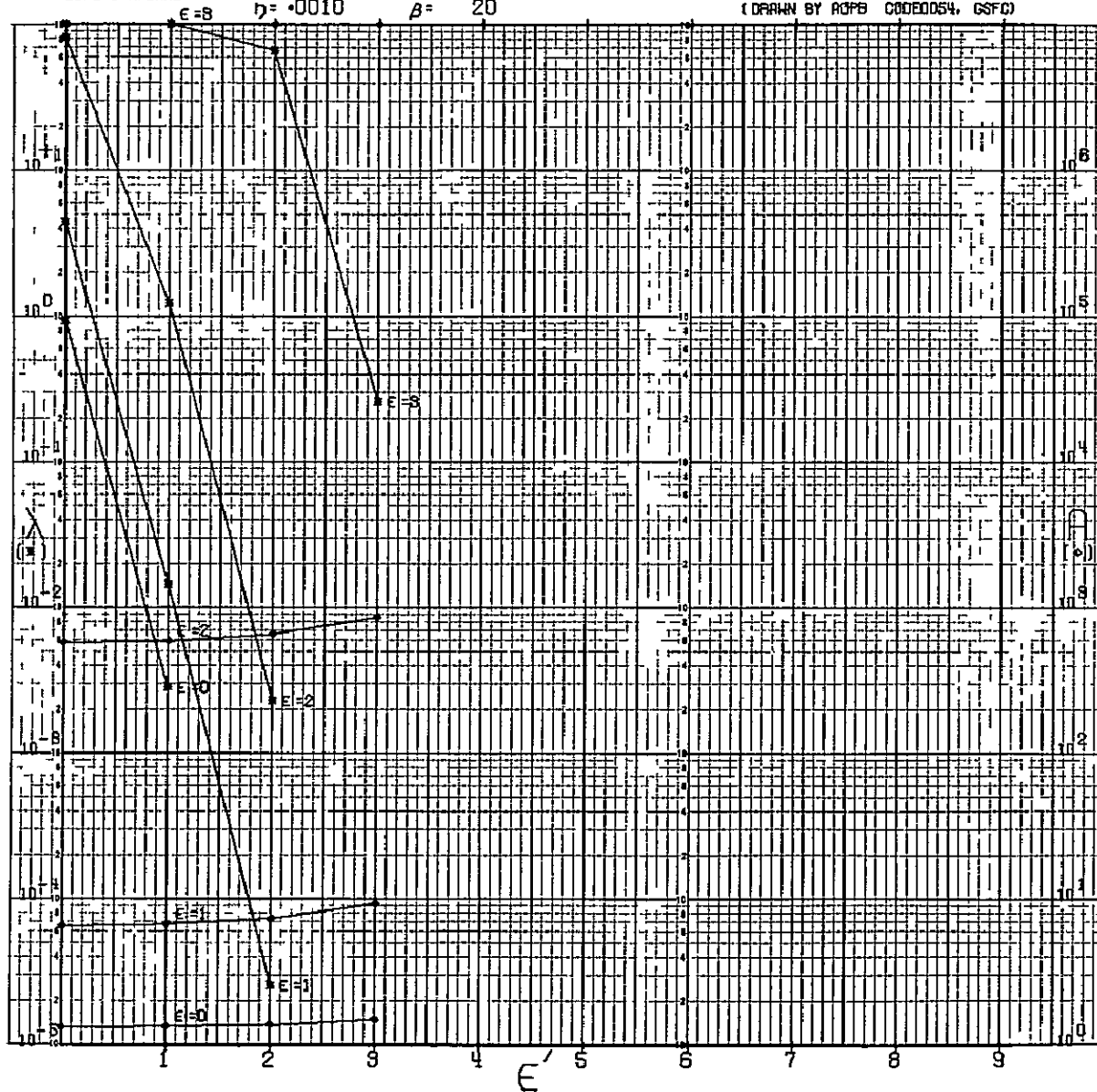
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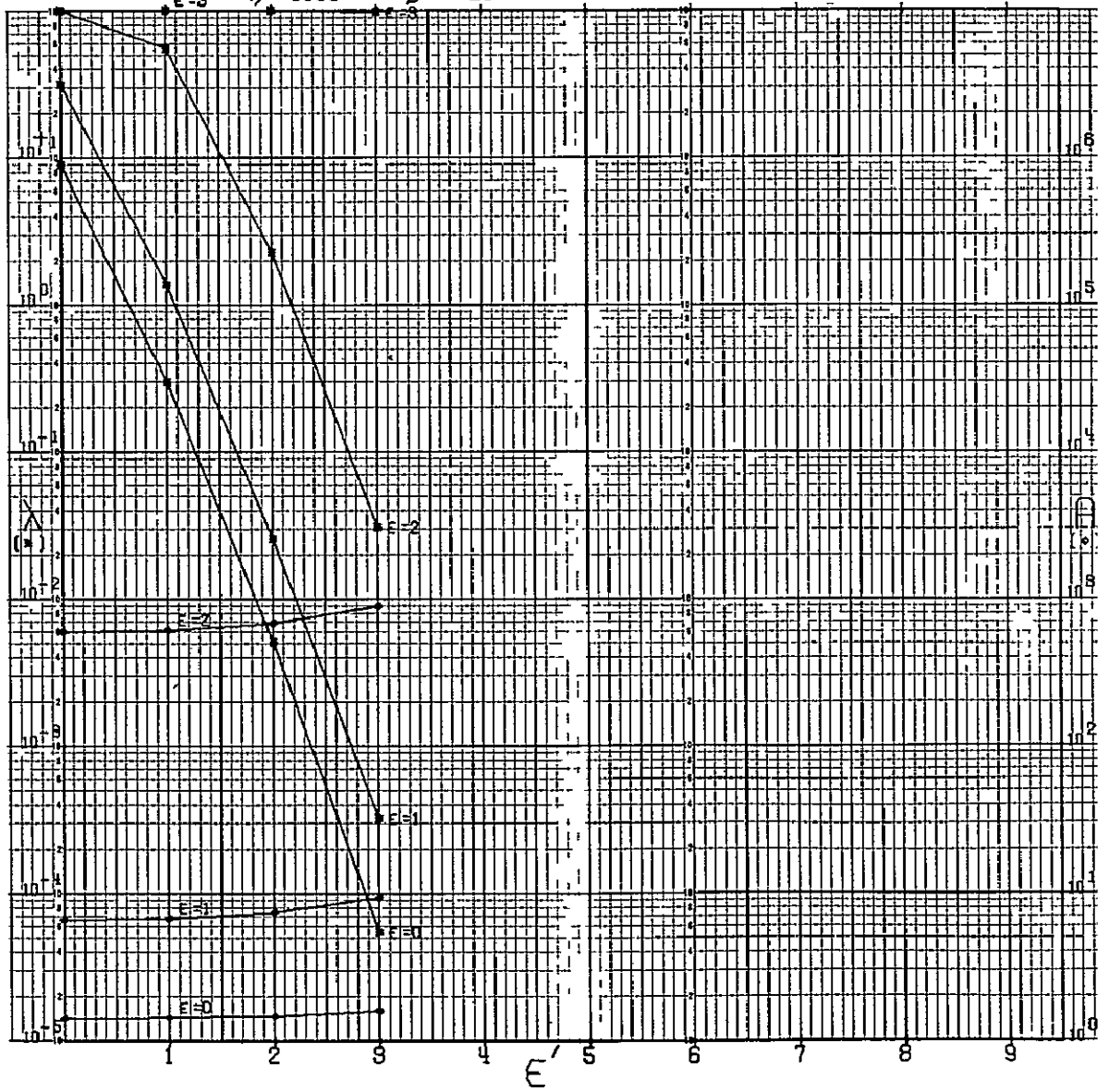
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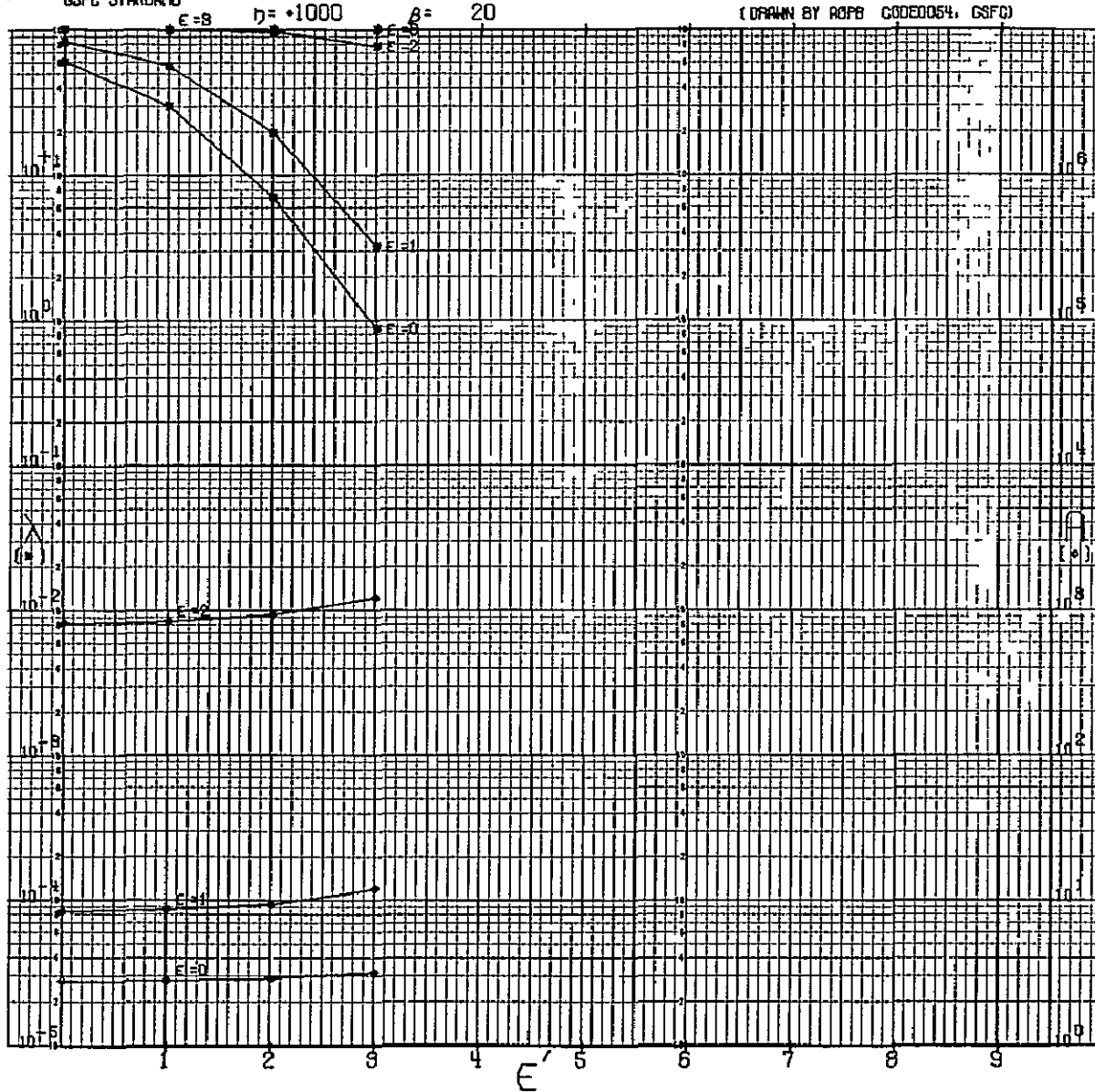
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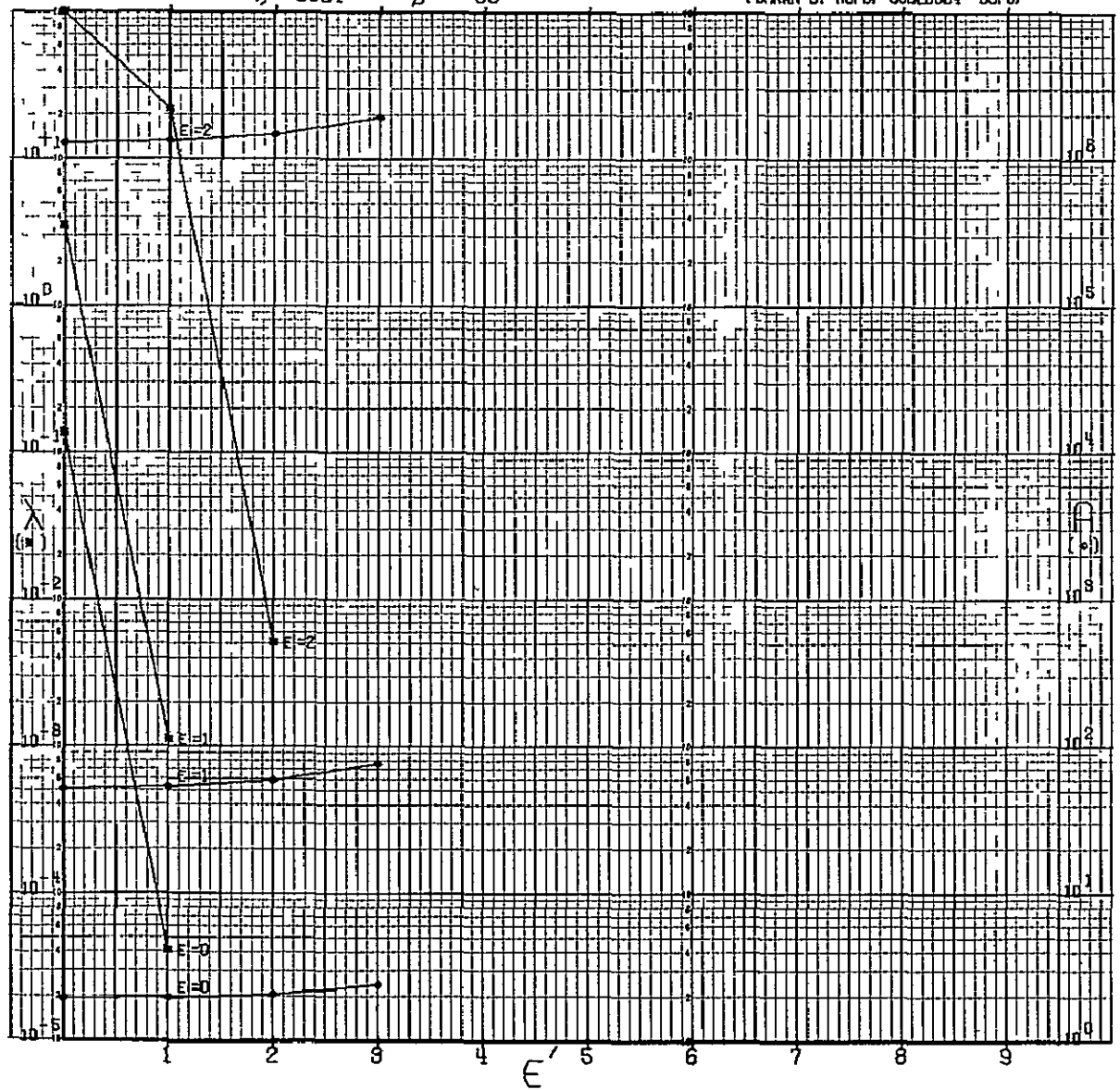
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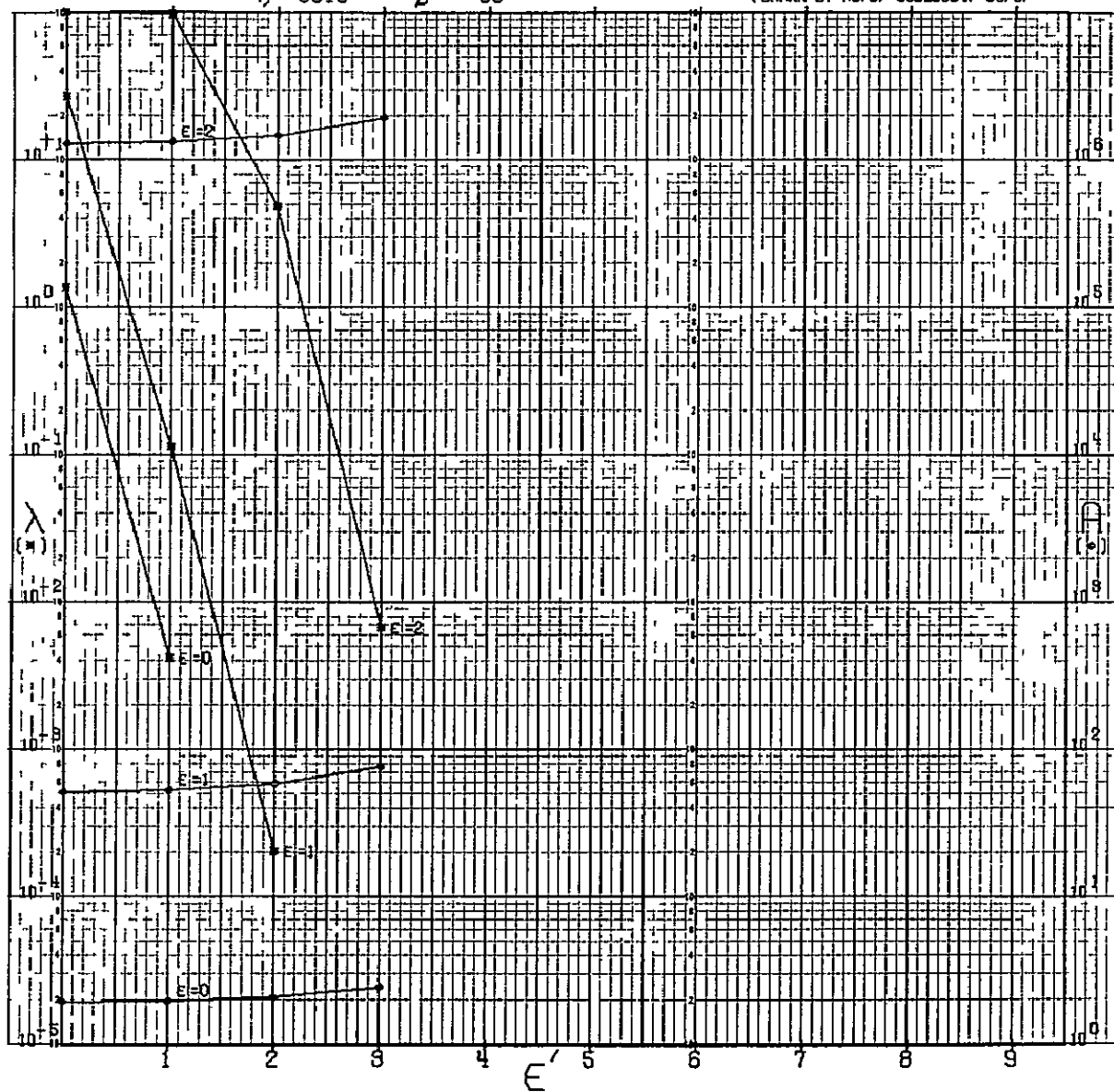


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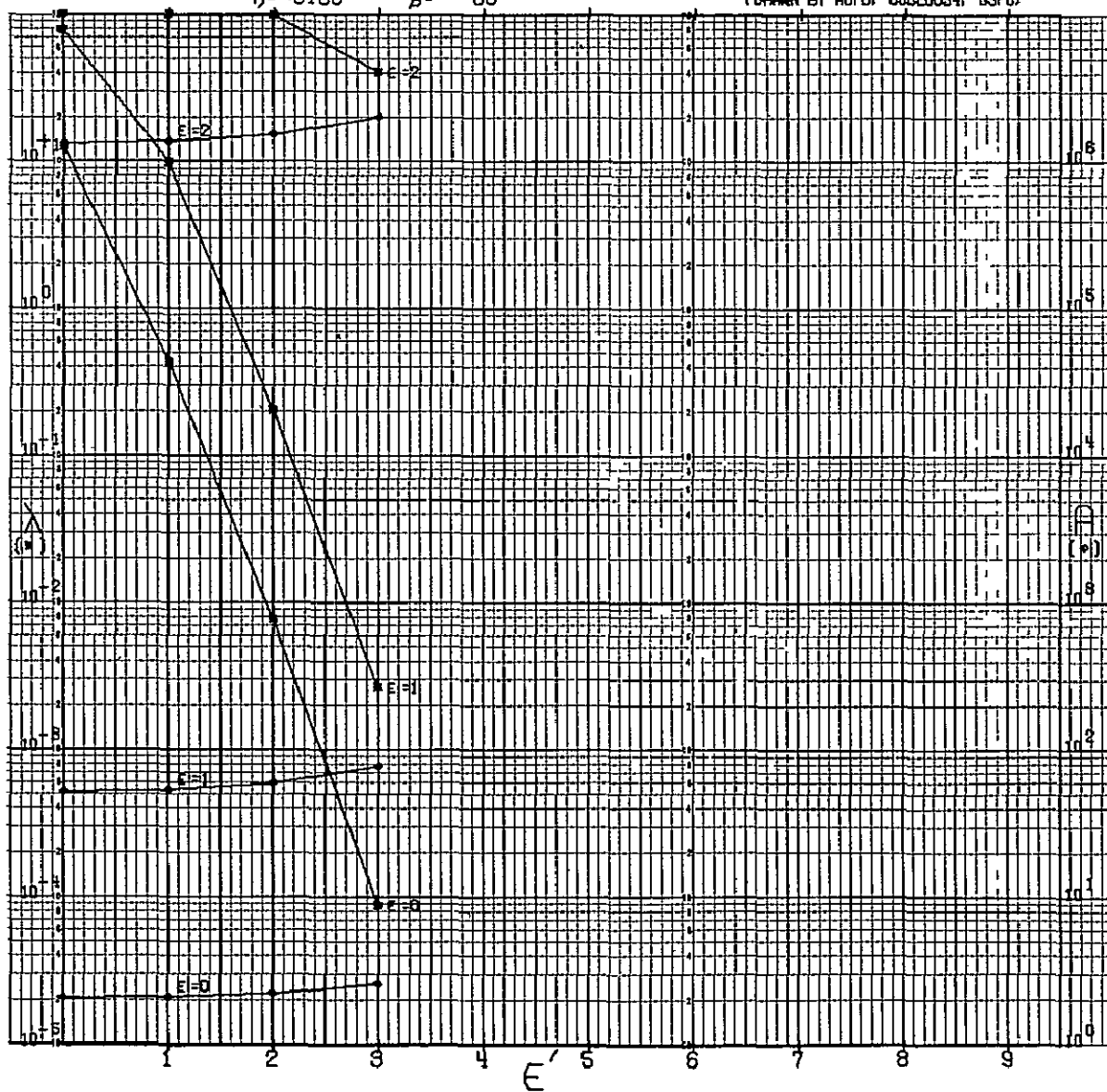
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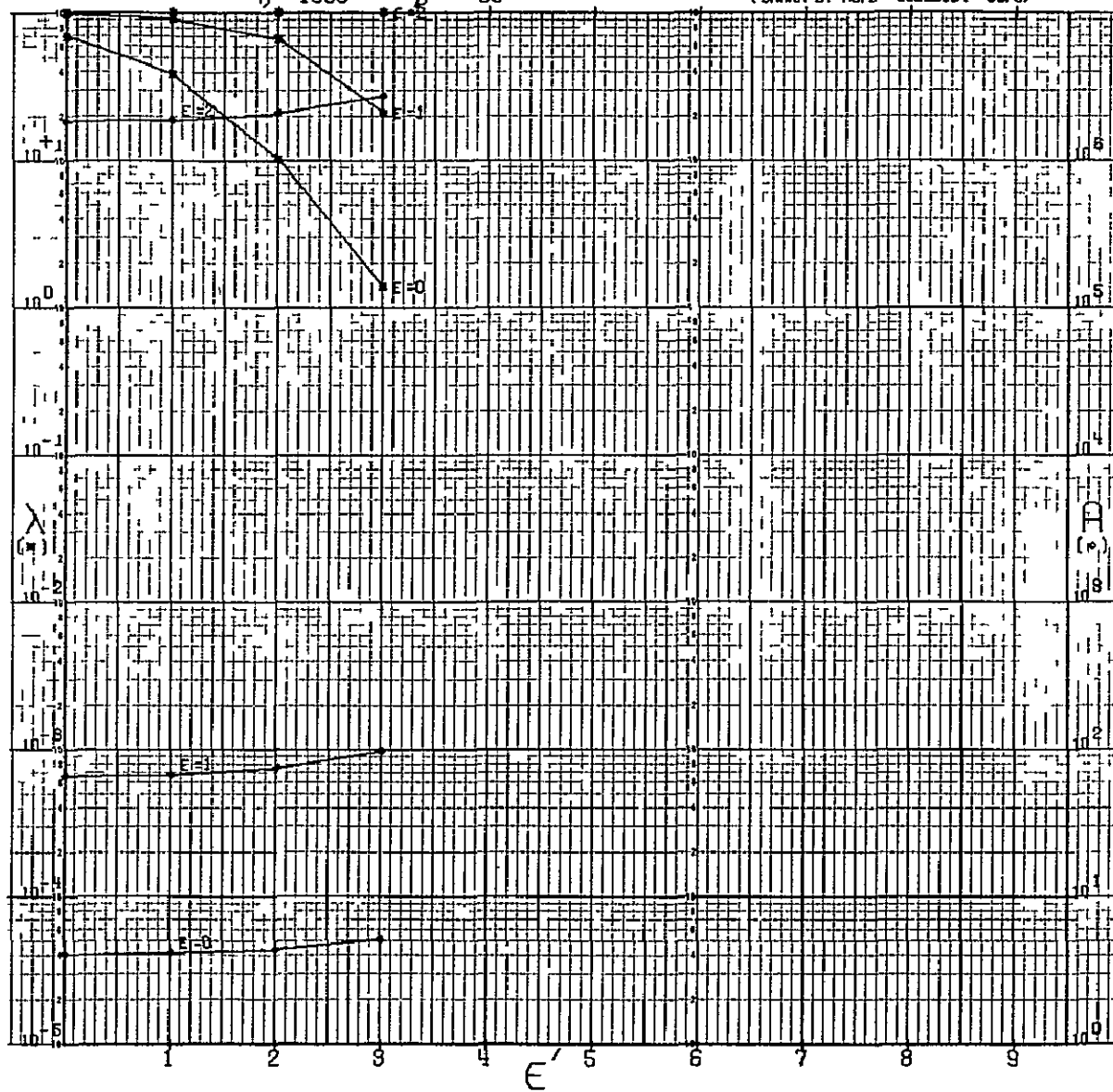
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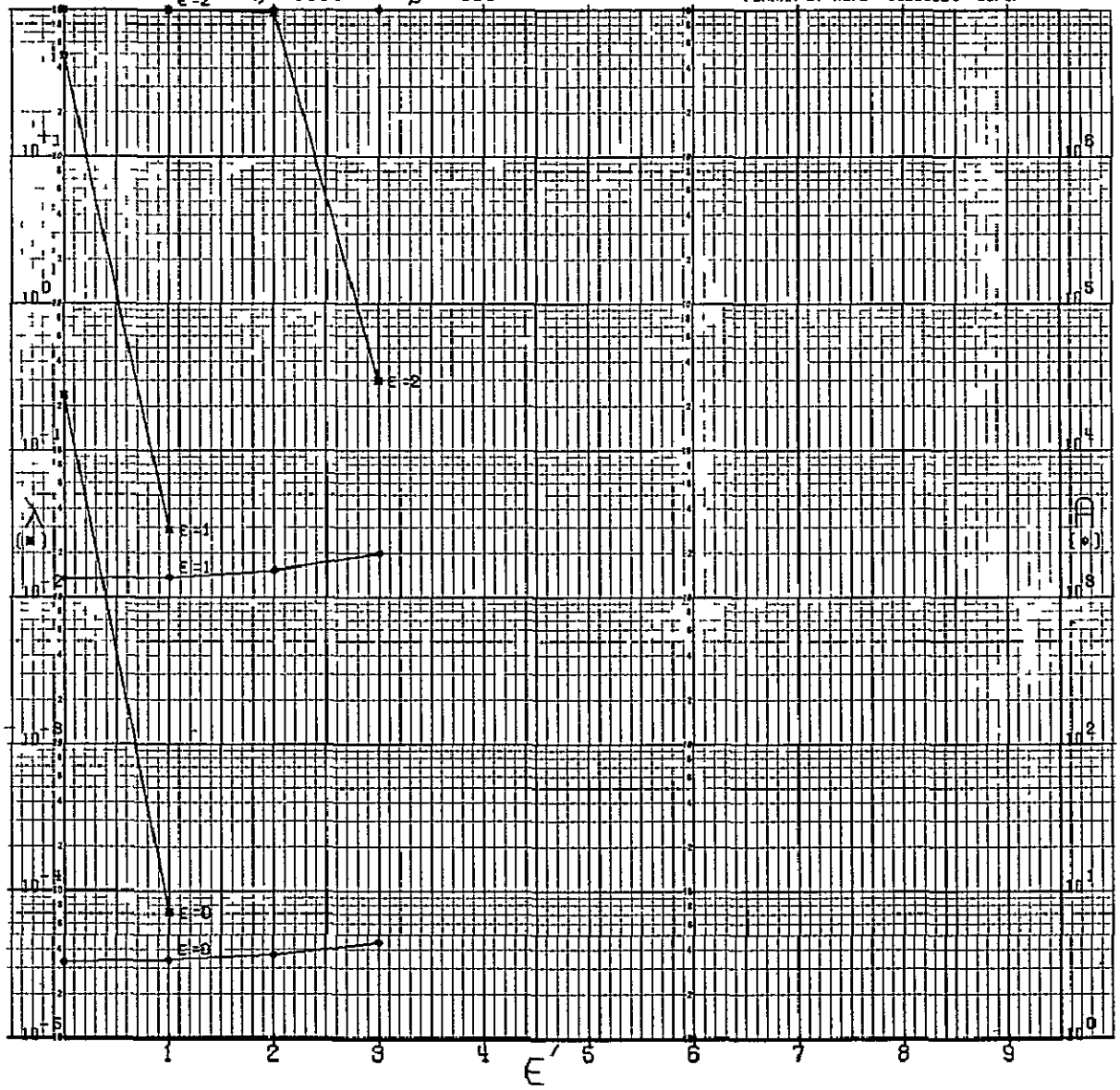


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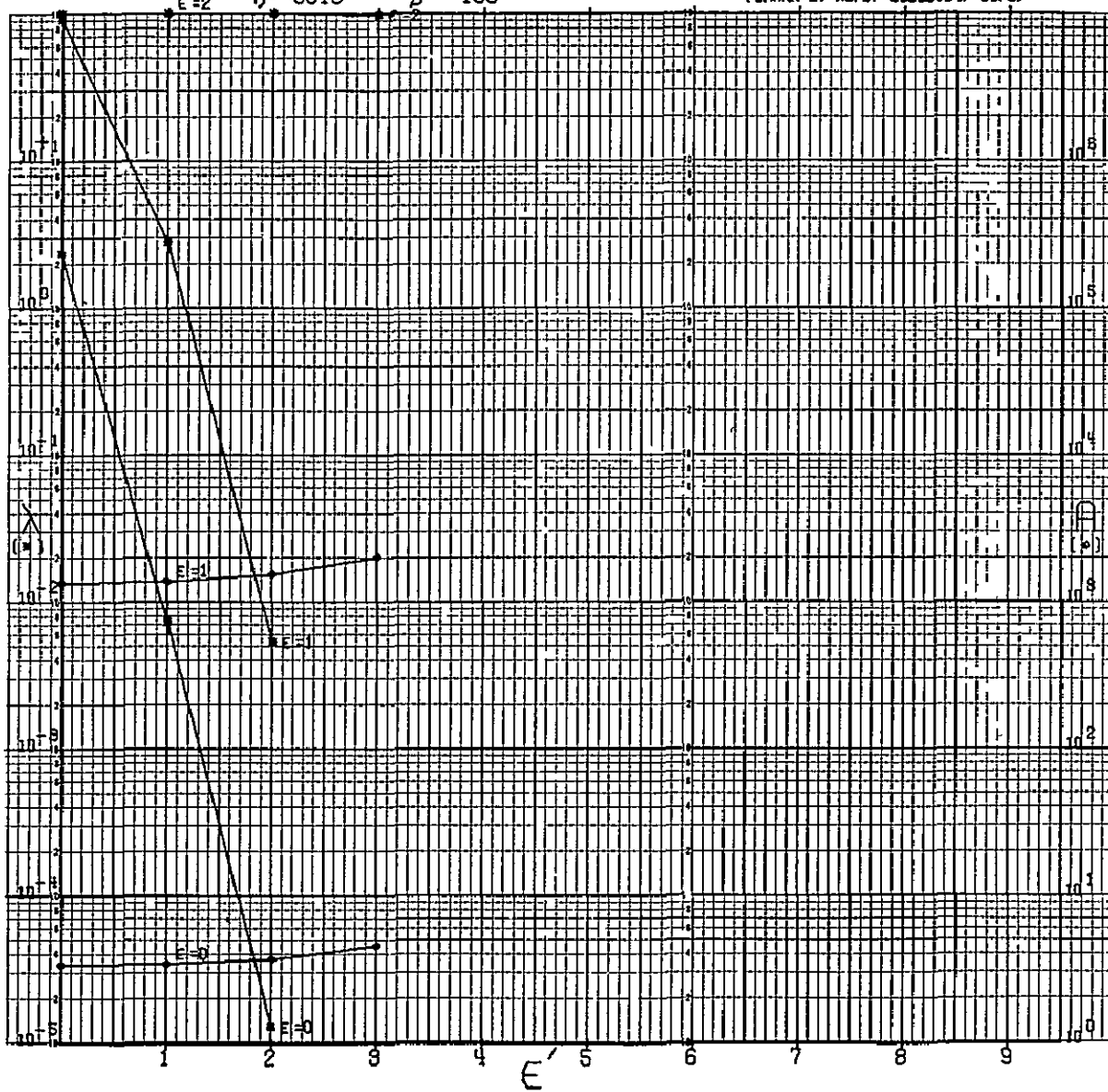
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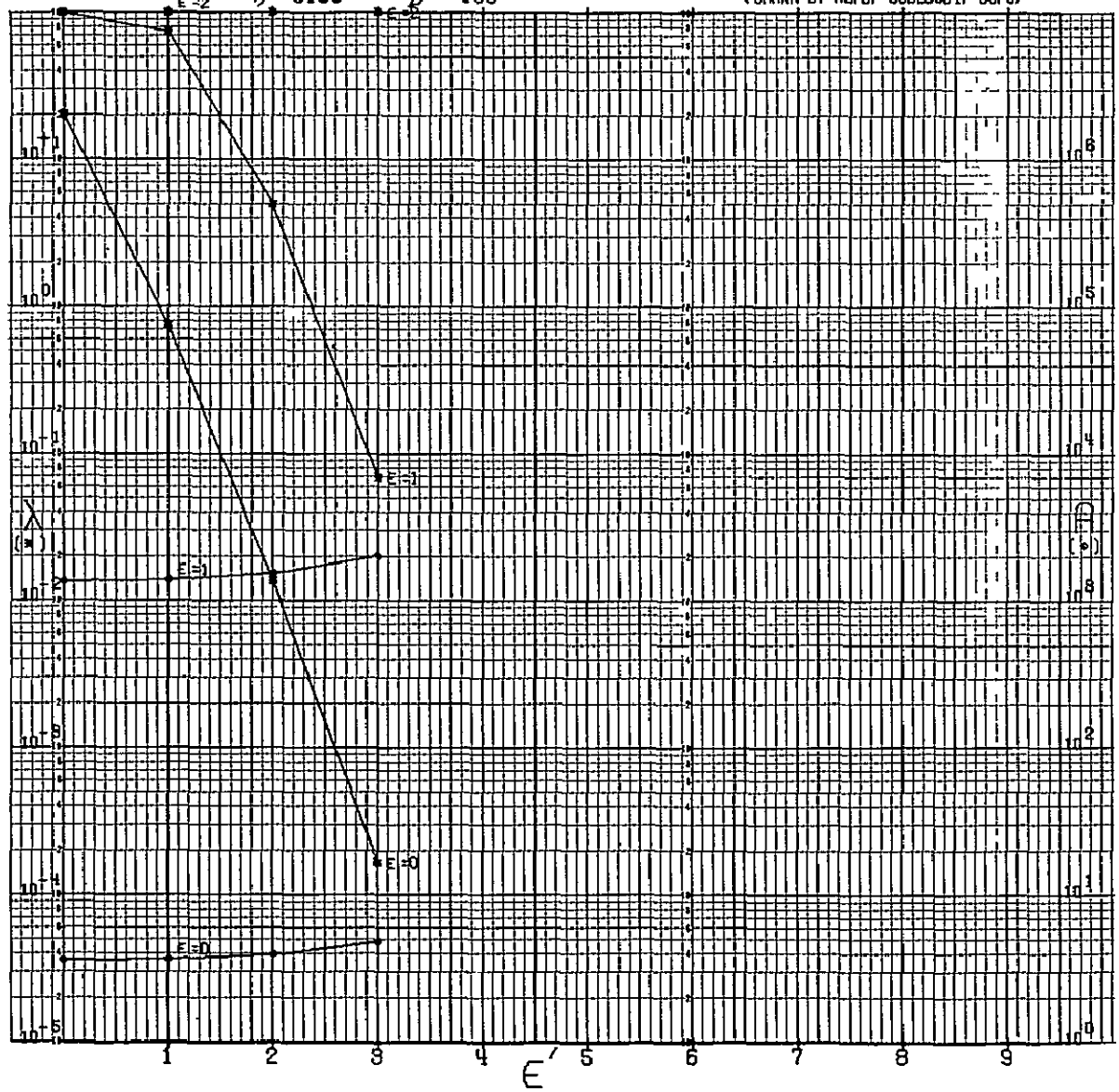
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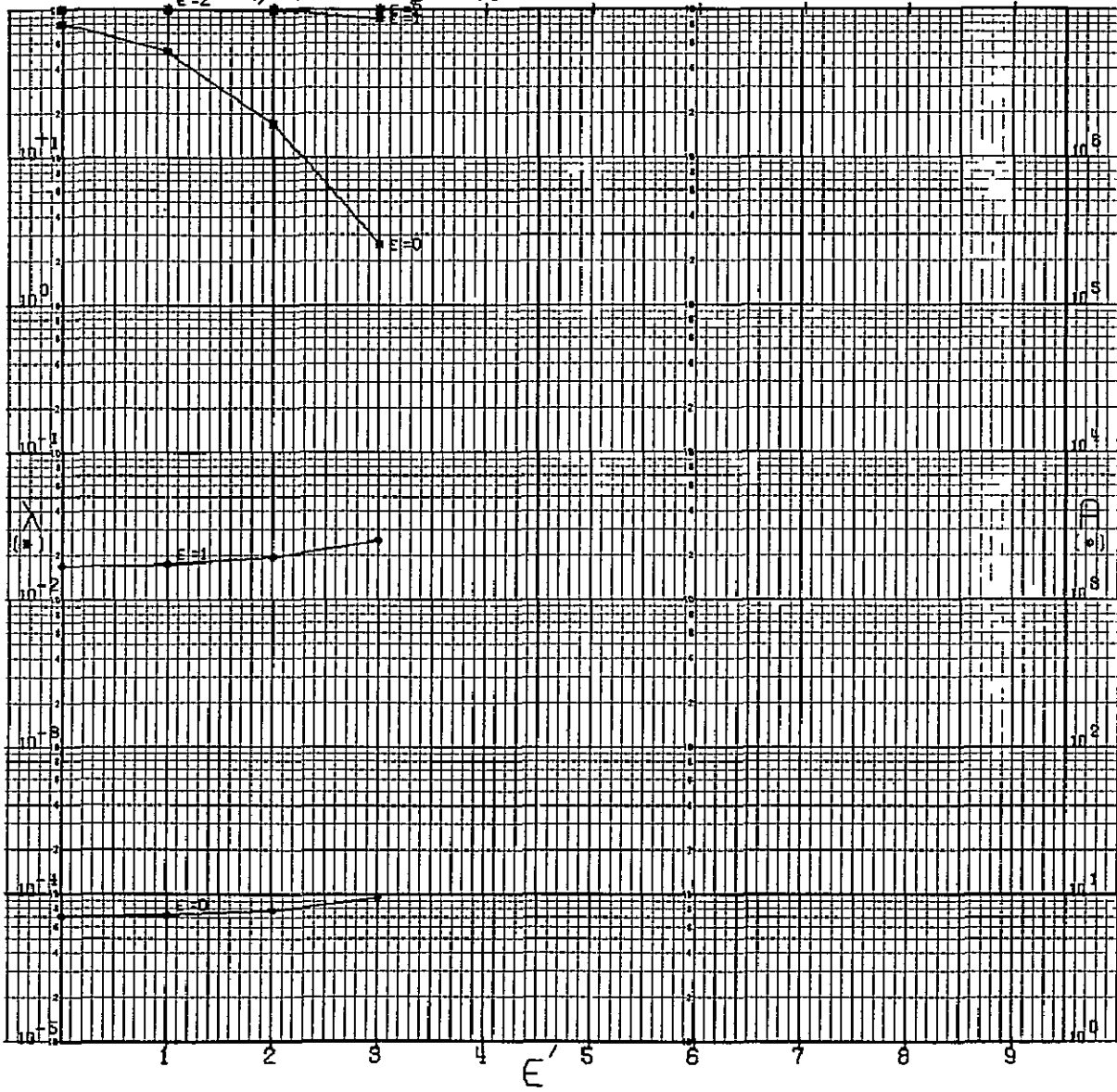
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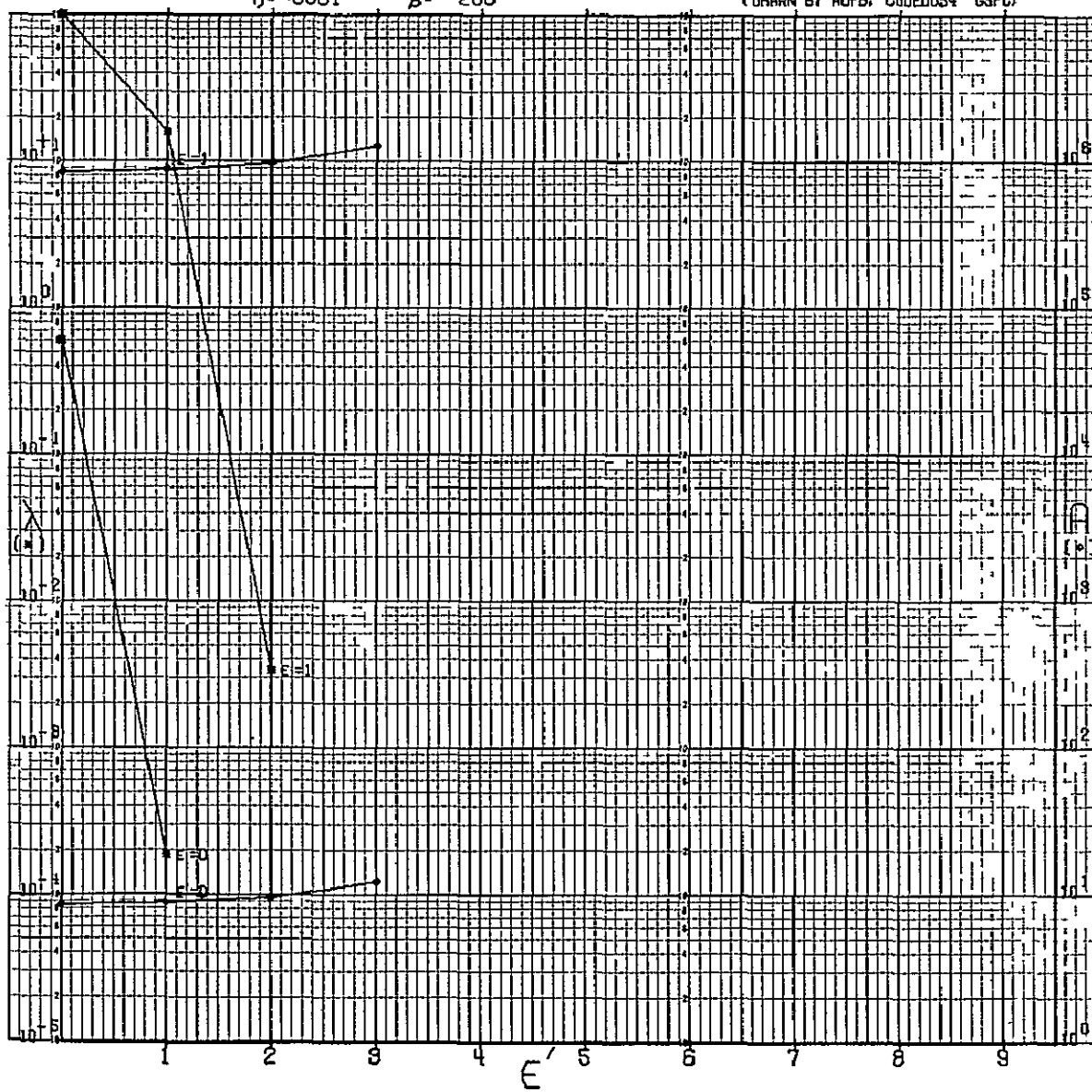
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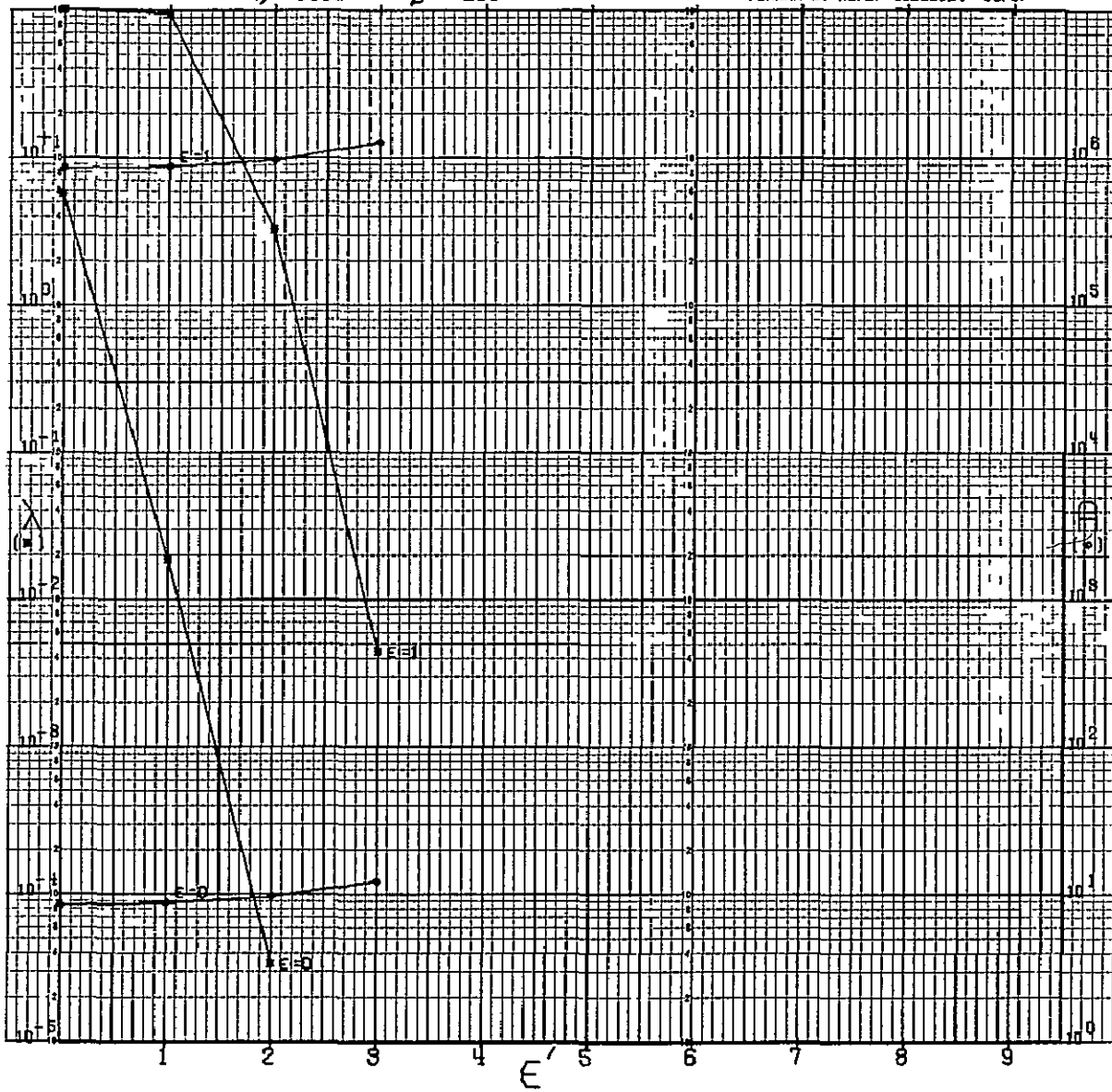
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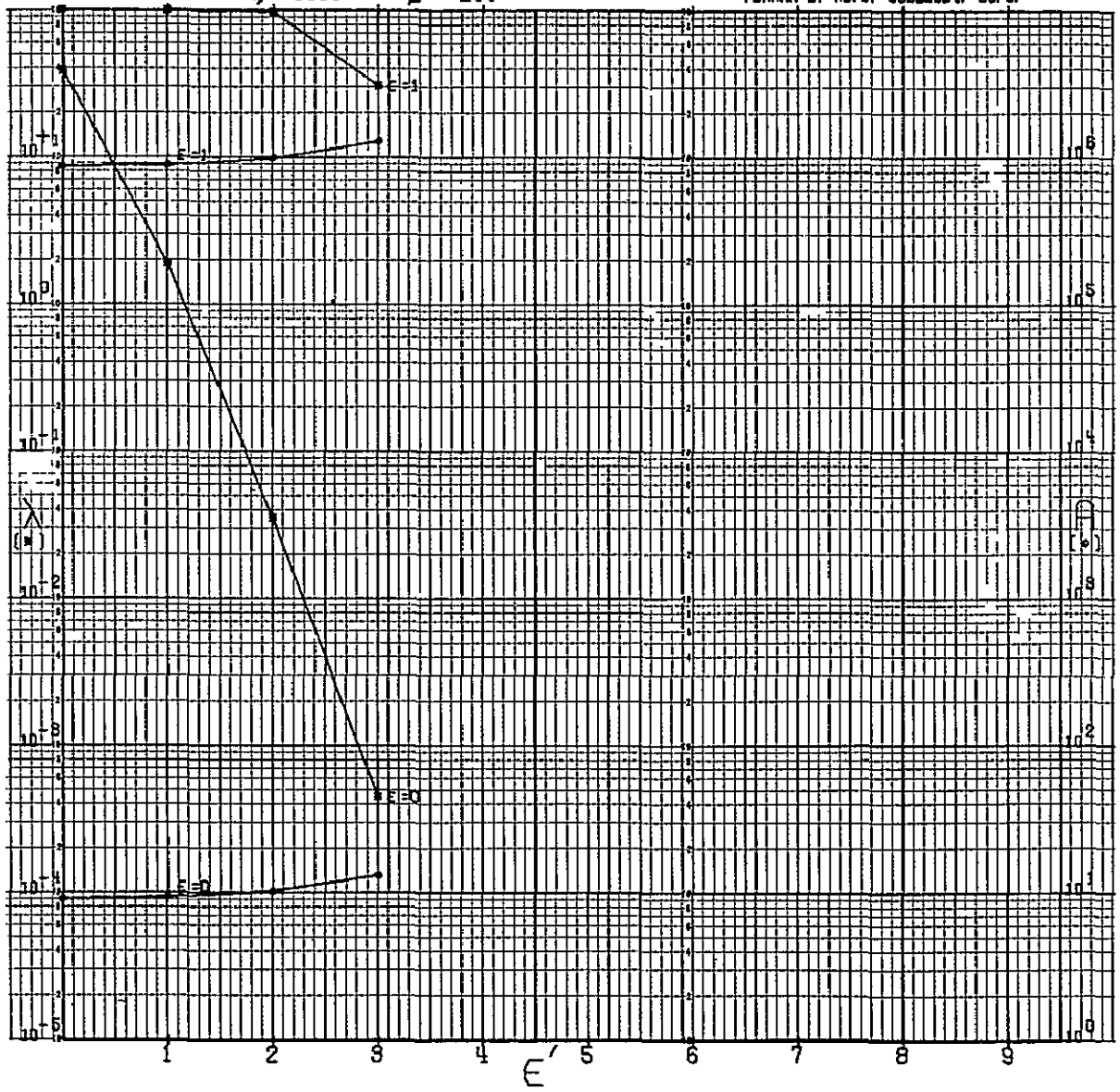
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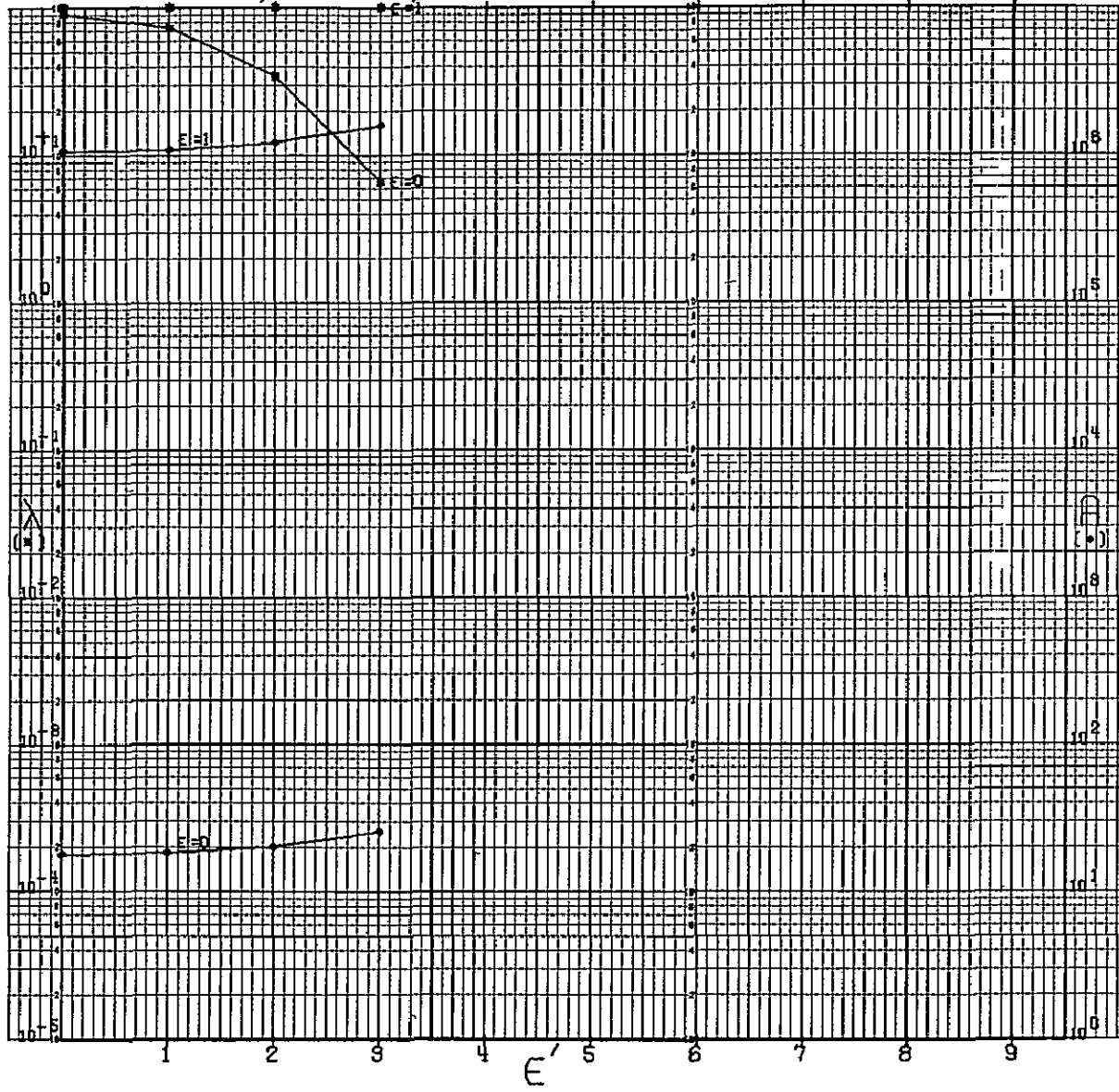
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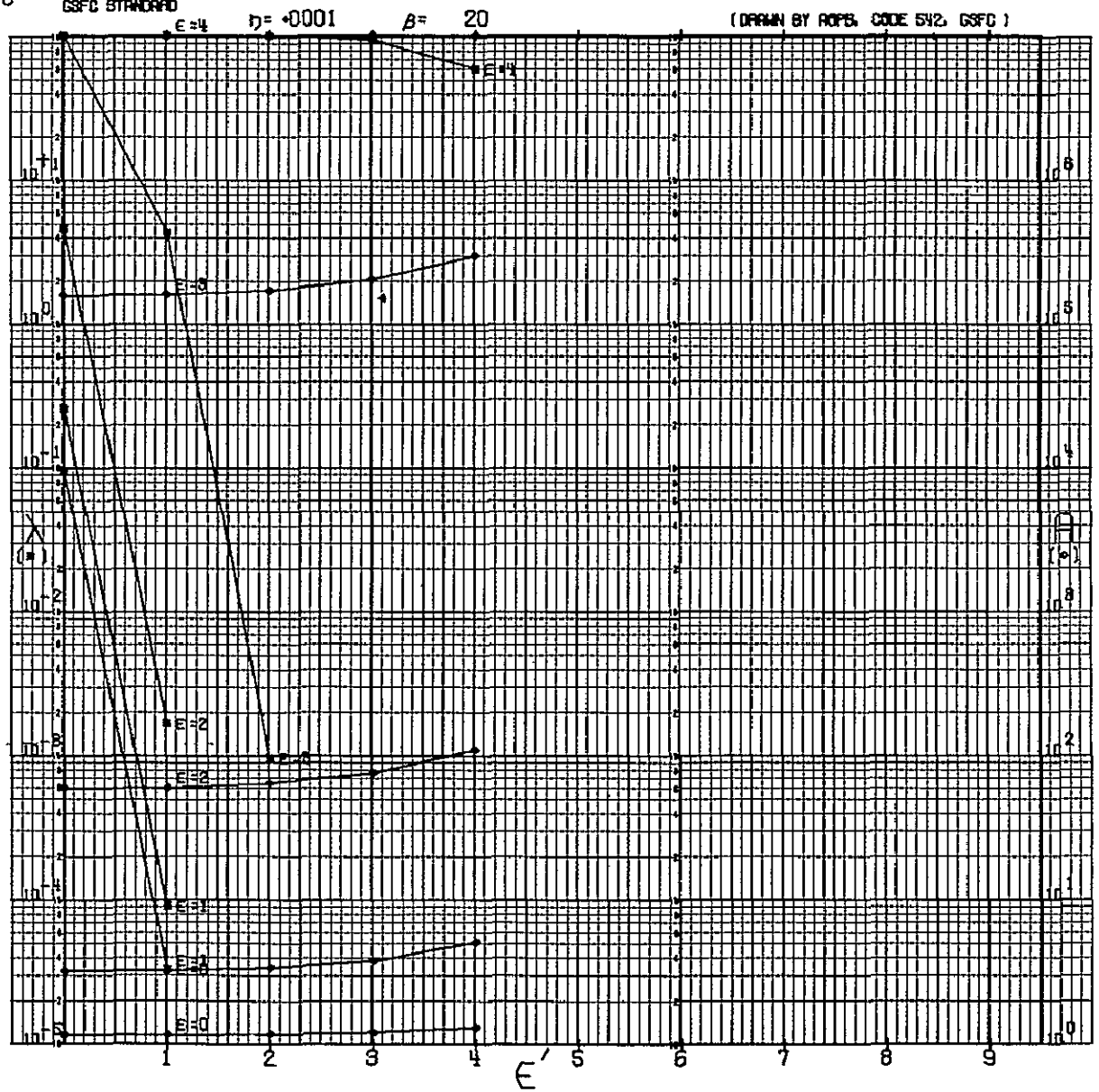
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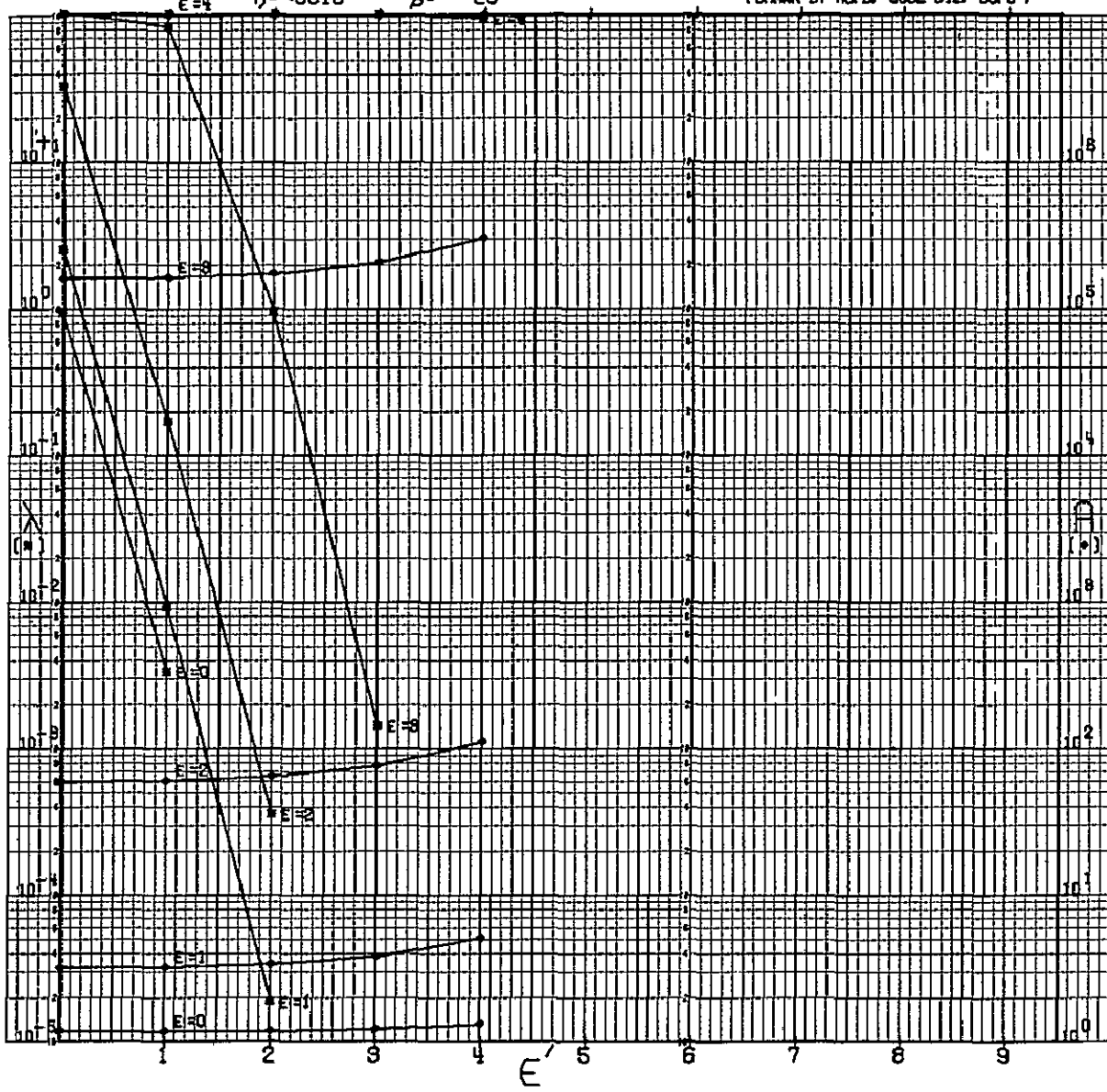
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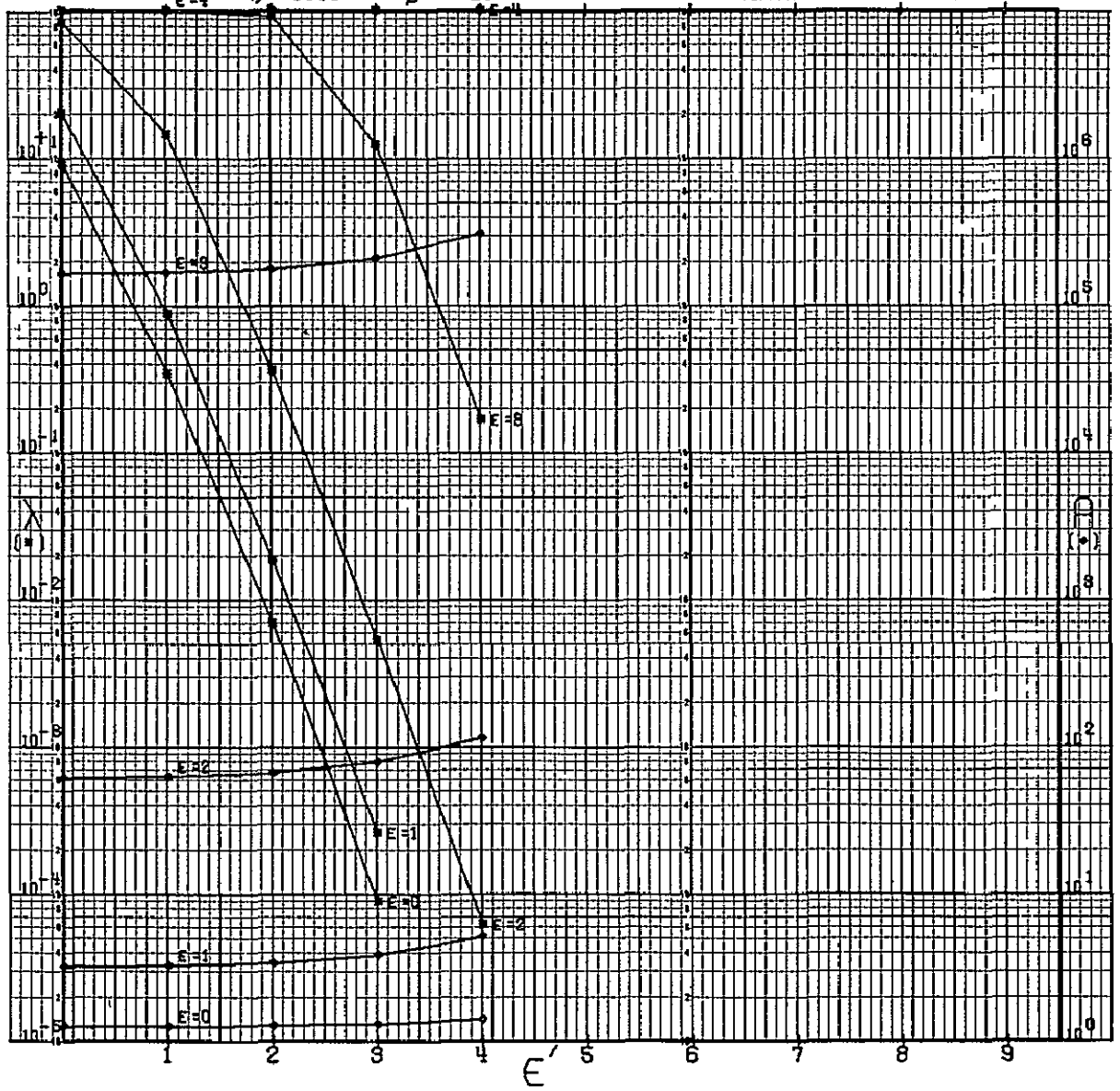
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$\beta = 20$

(DRAWN BY ROFB. CODE 512, GSFC)



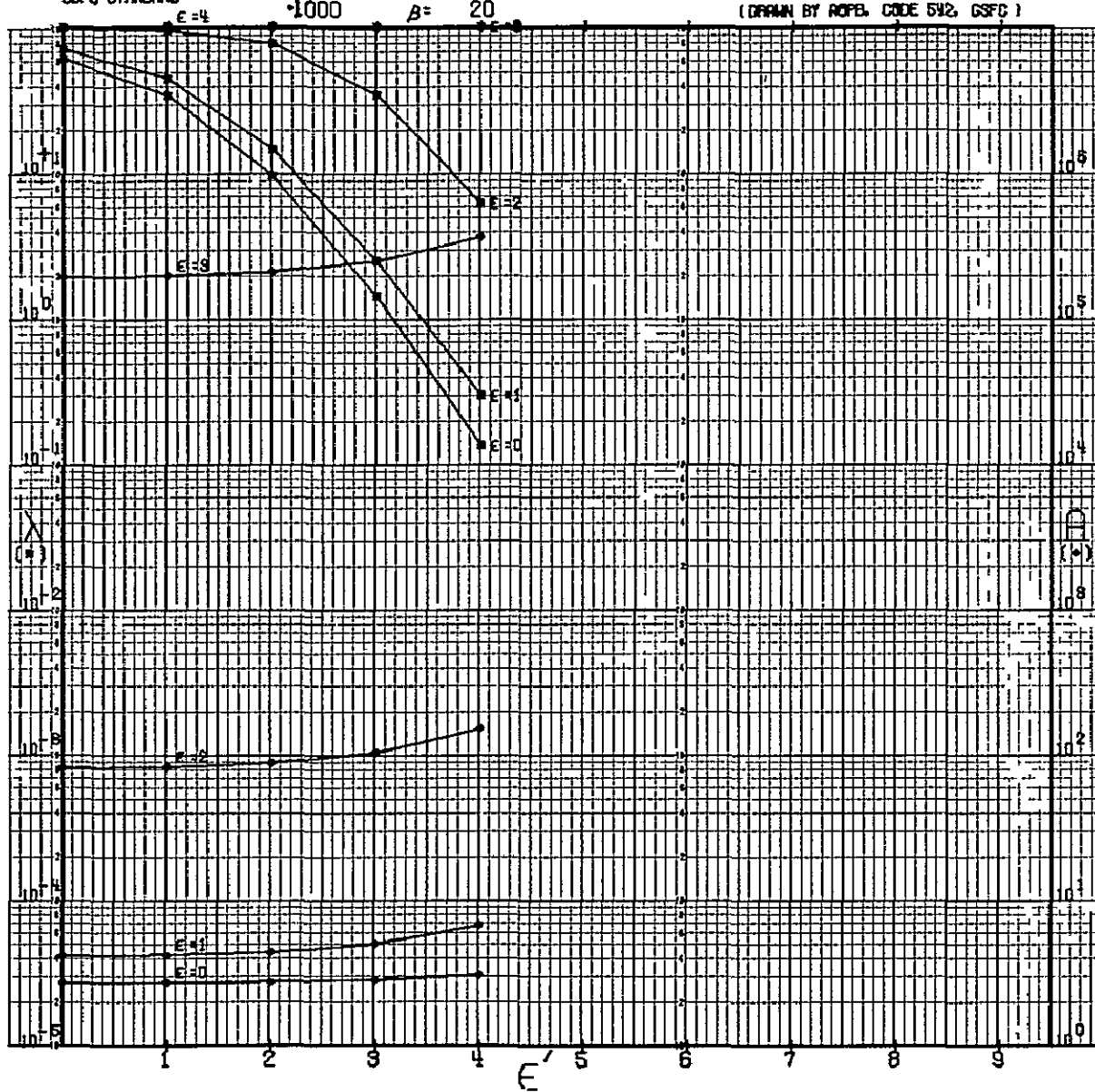
N = 8

CODE 10111006
GSFC STANDARD

-1000

$\beta = 20$

(DRAWN BY ADPBL CODE 542, GSFC)



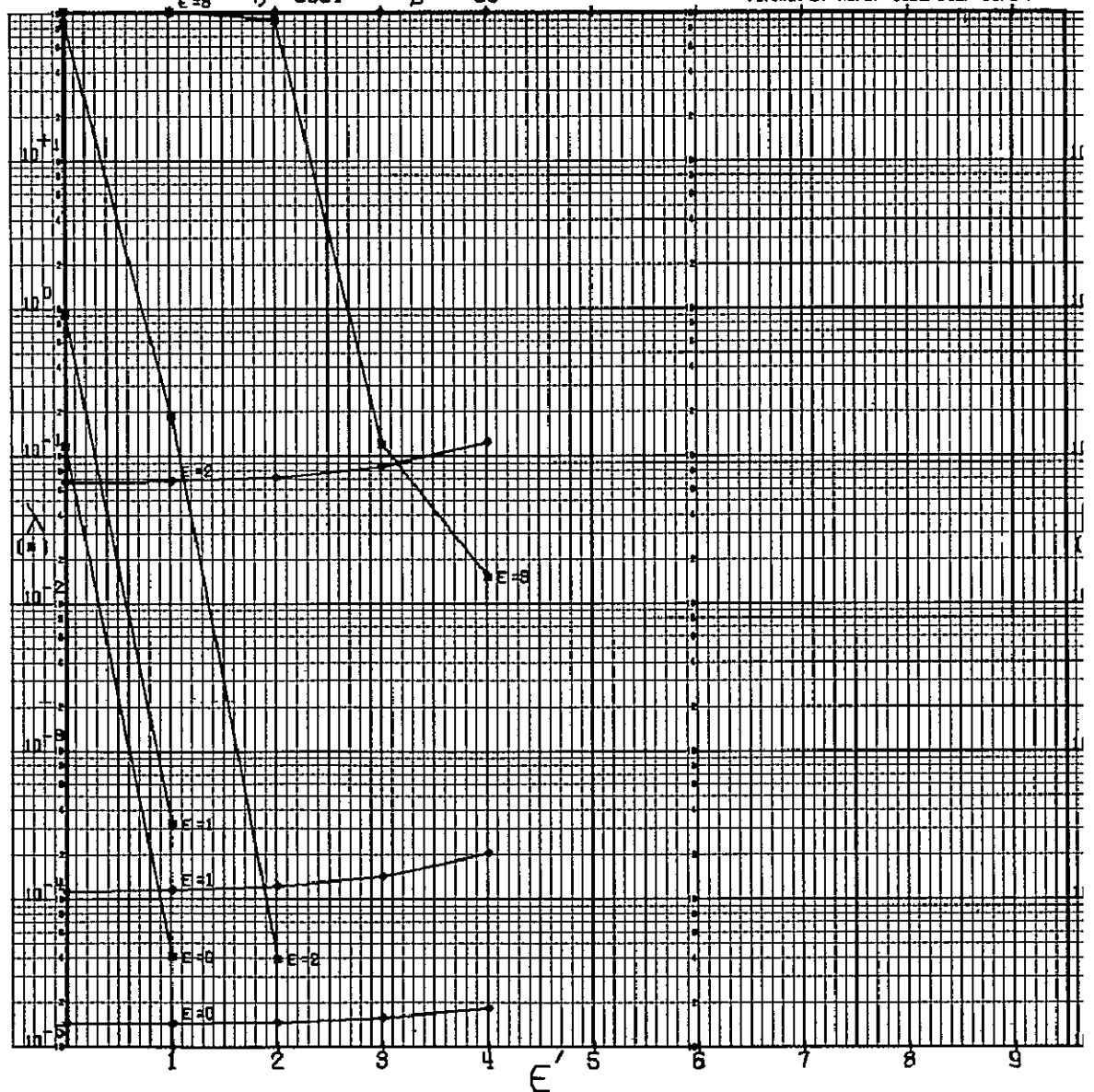
N = 8

CODE 10111000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



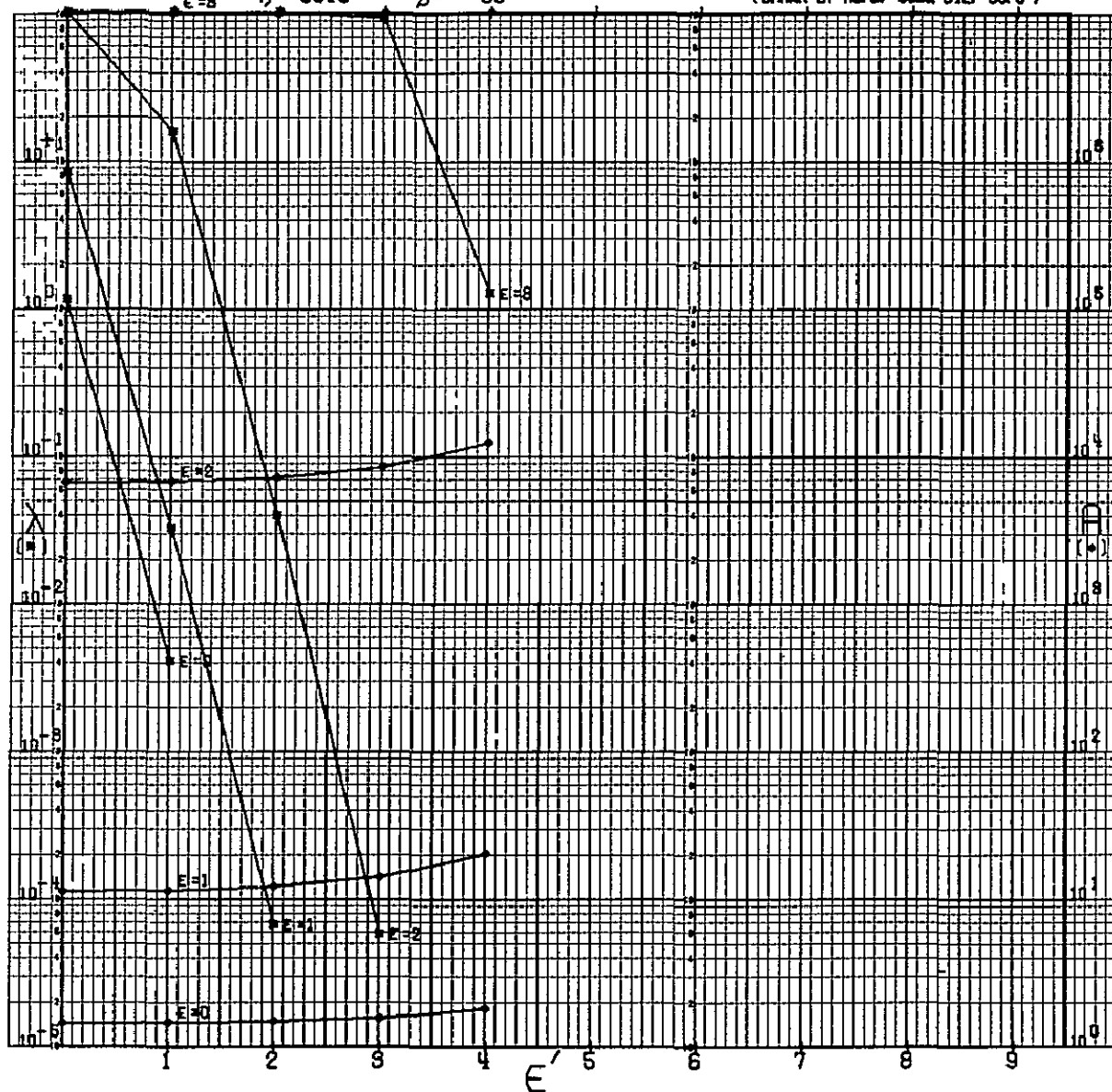
" 8

CODE 10111000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 50$

(DRAWN BY ROPE, CODE 542, GSFC)



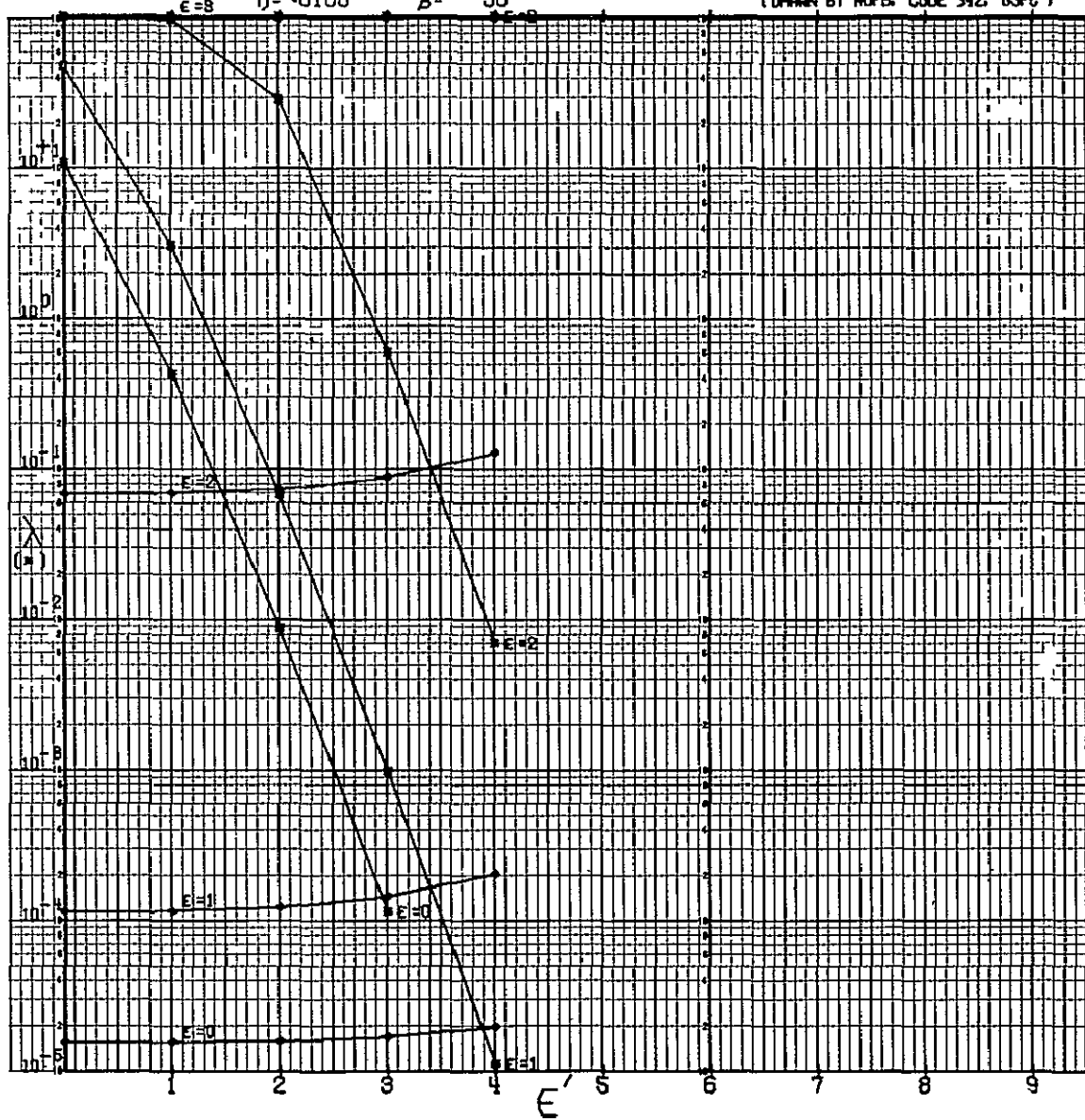
N = 8

CODE 10111000
GSFC STANDARD

$D = 0.100$

$\beta = 50$

(DRAWN BY ROPEL CODE 542, GSFC)



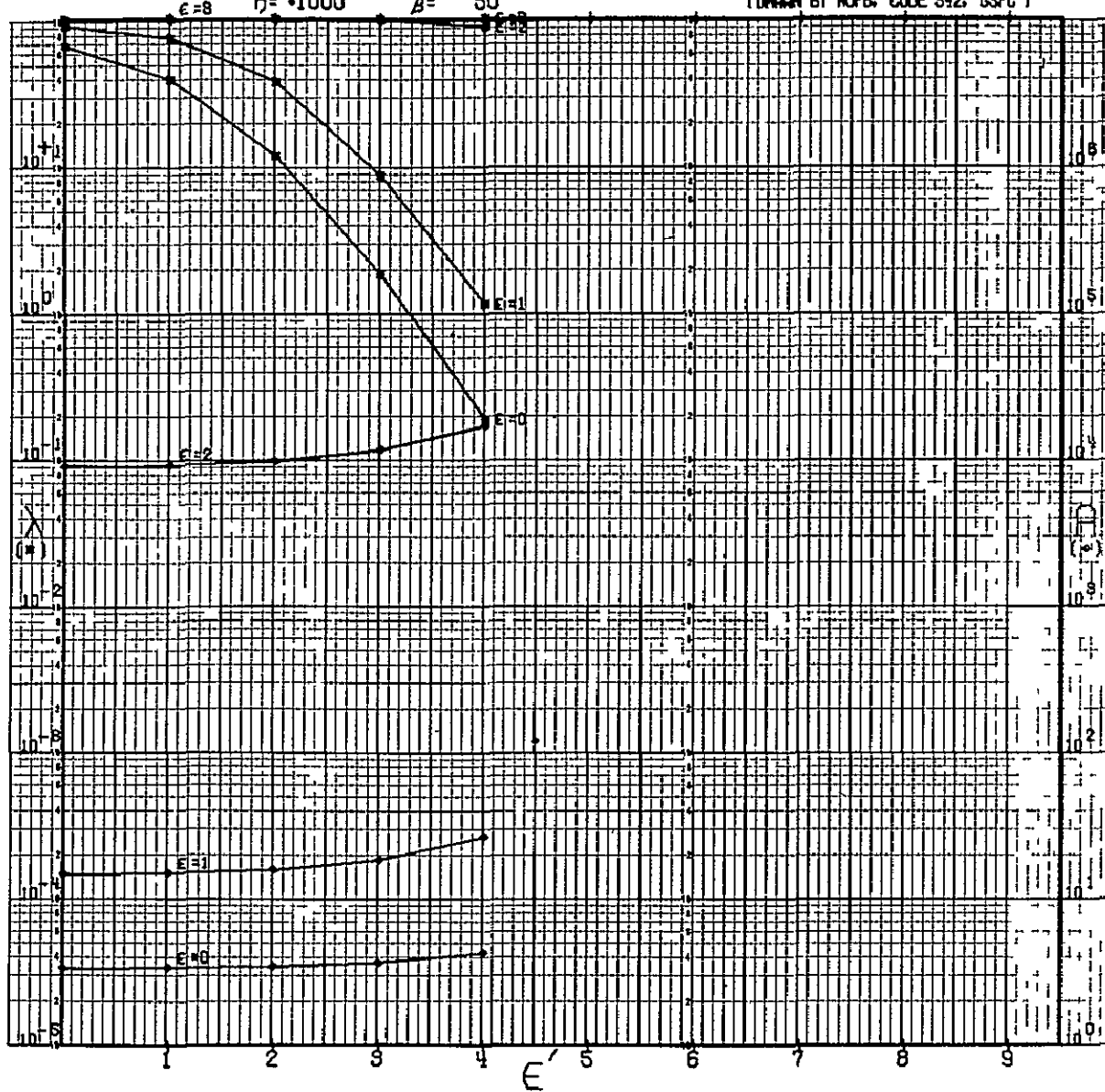
N = 8

CODE 10111000
GSFC STANDARD

$\eta = 1000$

$\beta = 50$

(DRAWN BY ROFB, CODE 542, GSFC)



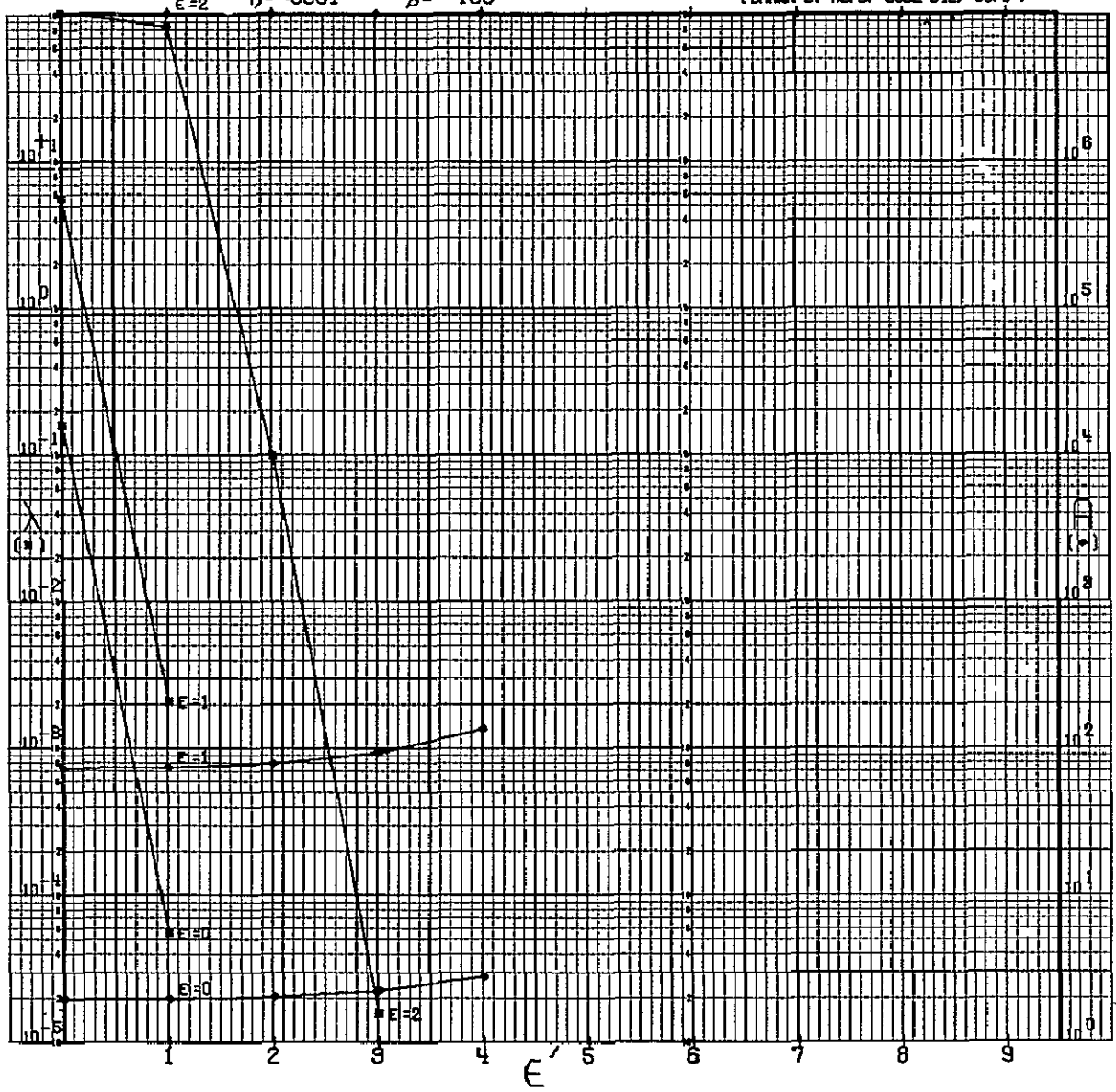
N = 8

CODE 10111000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0001$

$\beta = 100$

(DRAWN BY ACPB, CODE 542, GSFC)



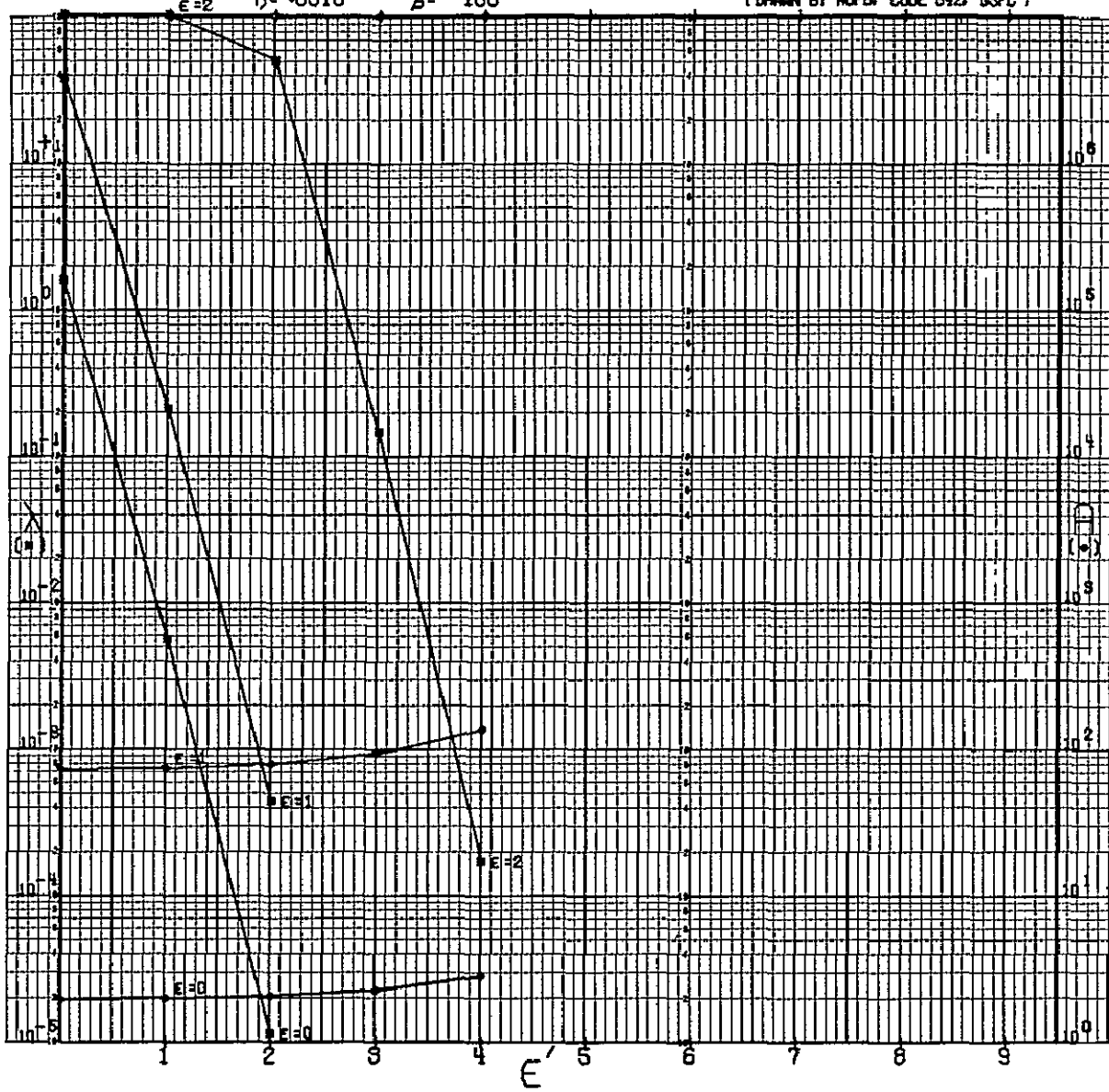
$N = 8$

CODE 10111000
GSFC STANDARD

$h = .0010$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 8

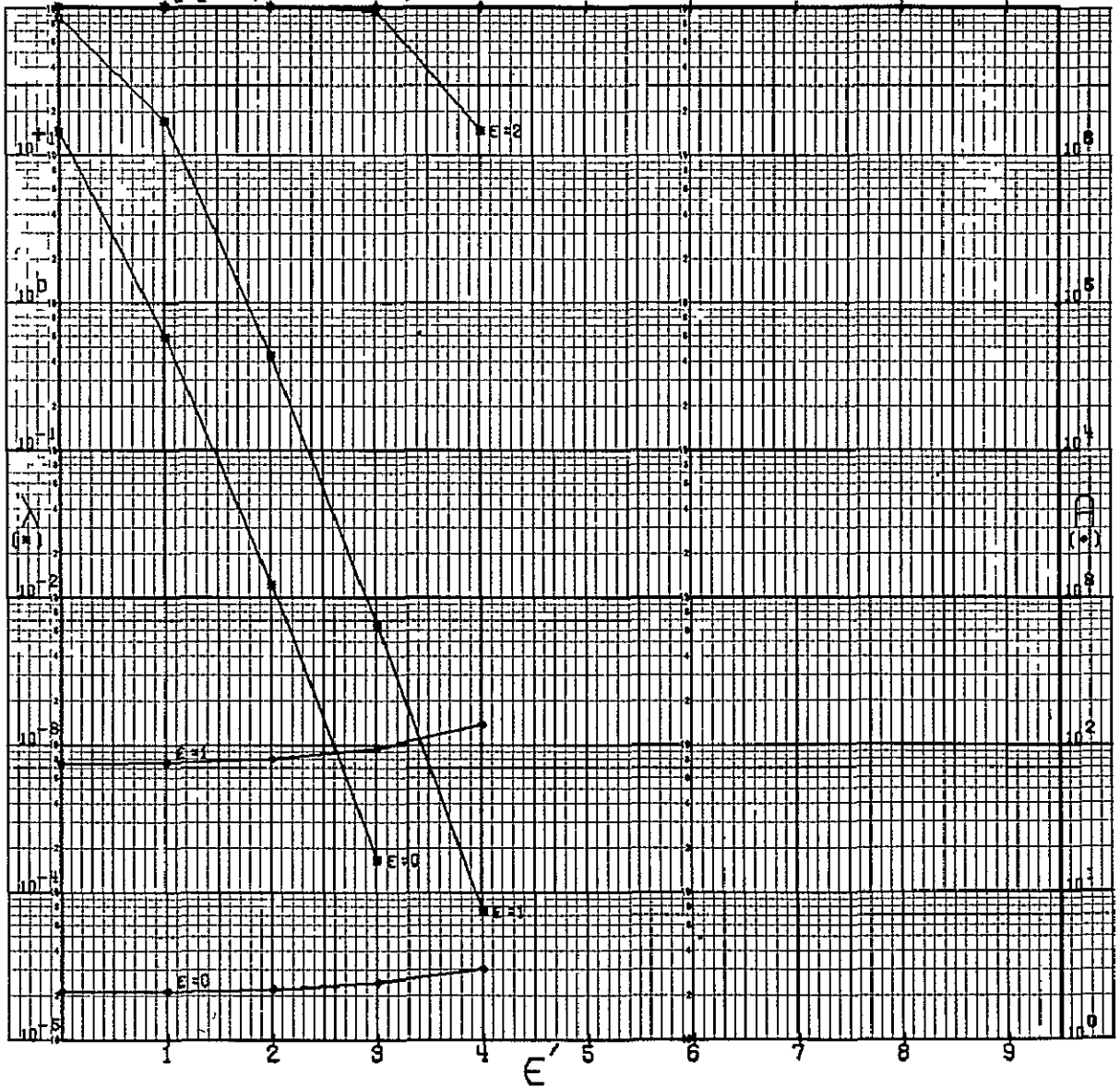
CODE 10111000
GSFC STANDARD

$\epsilon = 2$

$\eta = .0100$

$\beta = 100$

(DRAWN BY ROPS, CODE 542, GSFC)



$N = 8$

CODE 10111000

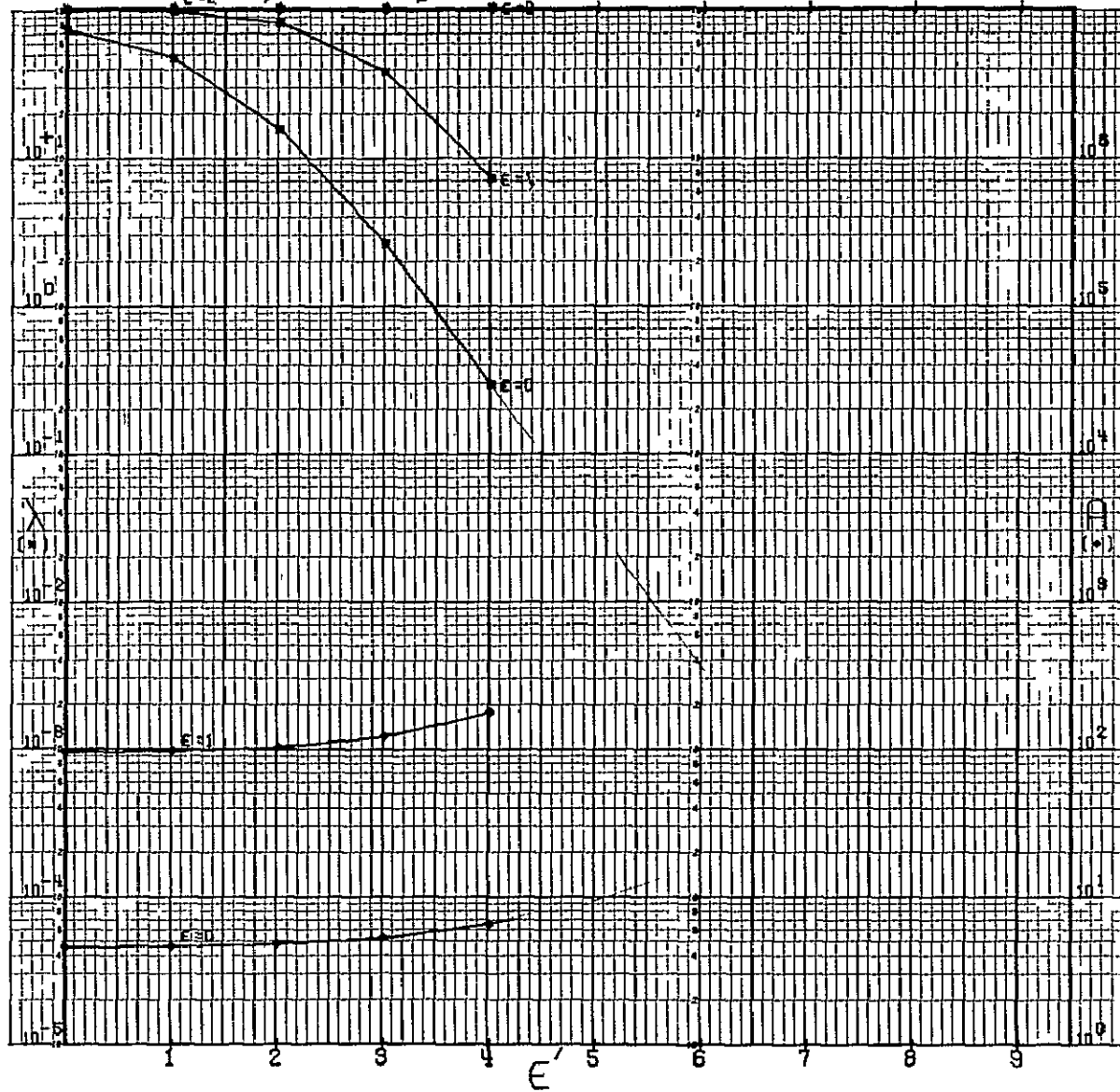
GSFC STANDARD

$\epsilon = 2$

$h = 1000$

$\beta = 100$

(DRAWN BY ROFB, CODE 542, GSFC)



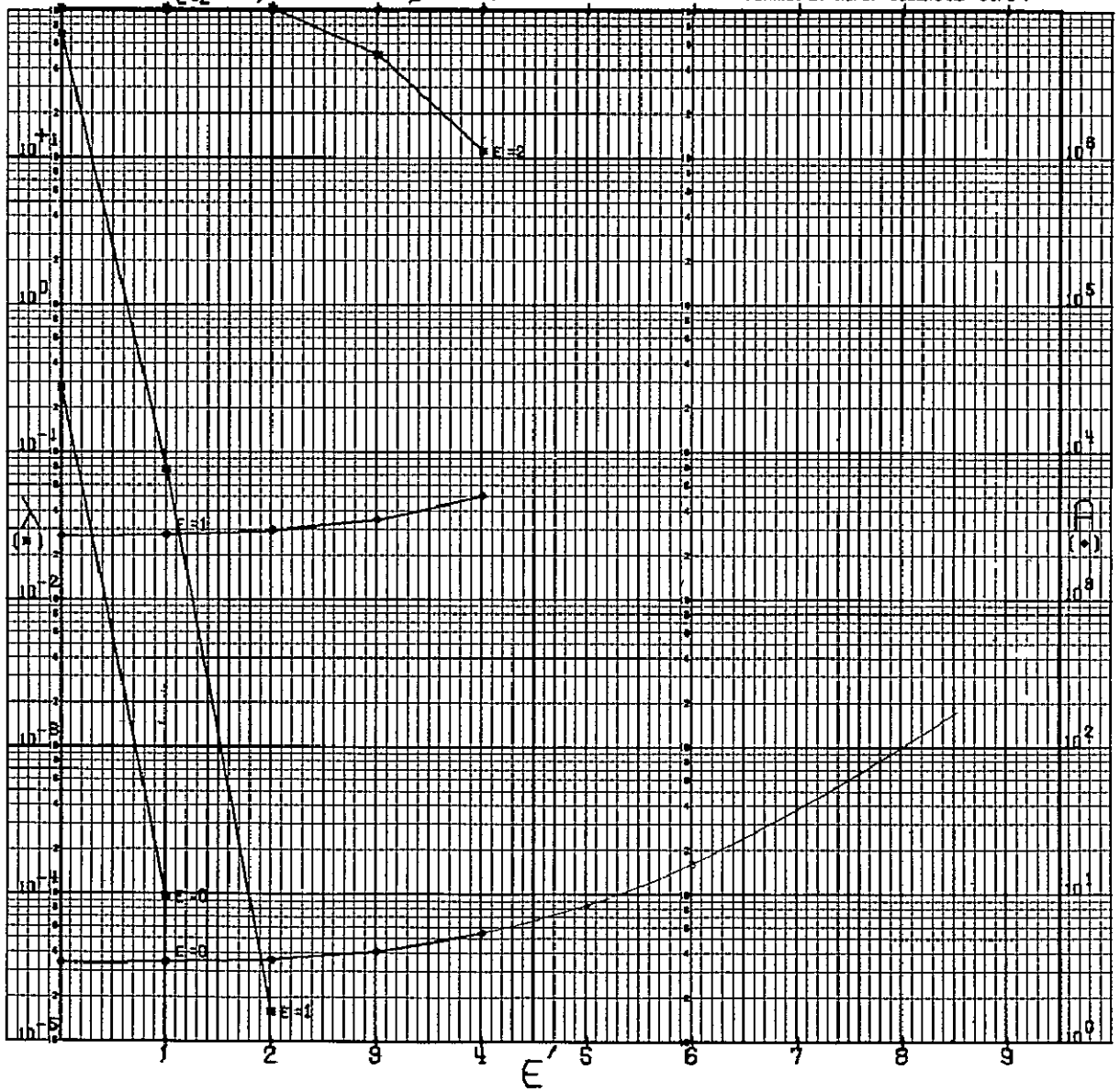
N = 8

CODE 10111000
GSFC STANDARD

$\eta = +0001$

$\beta = 200$

(DRAWN BY ROPB, CODE 642, GSFC)



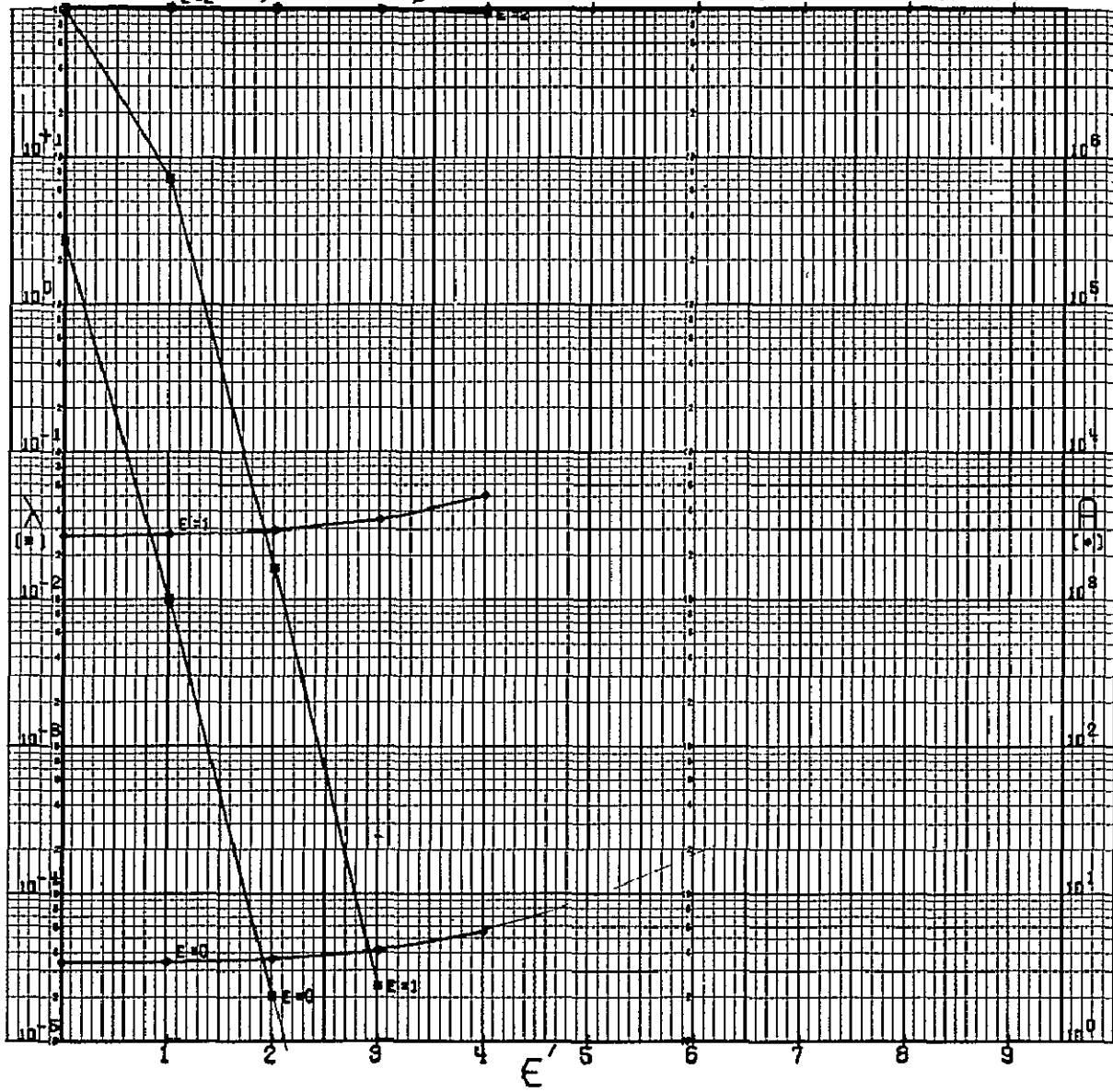
N = 8

CODE 10111000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0010$

$\beta = 200$

(DRAWN BY ADPB, COLL. 542, GSFC)



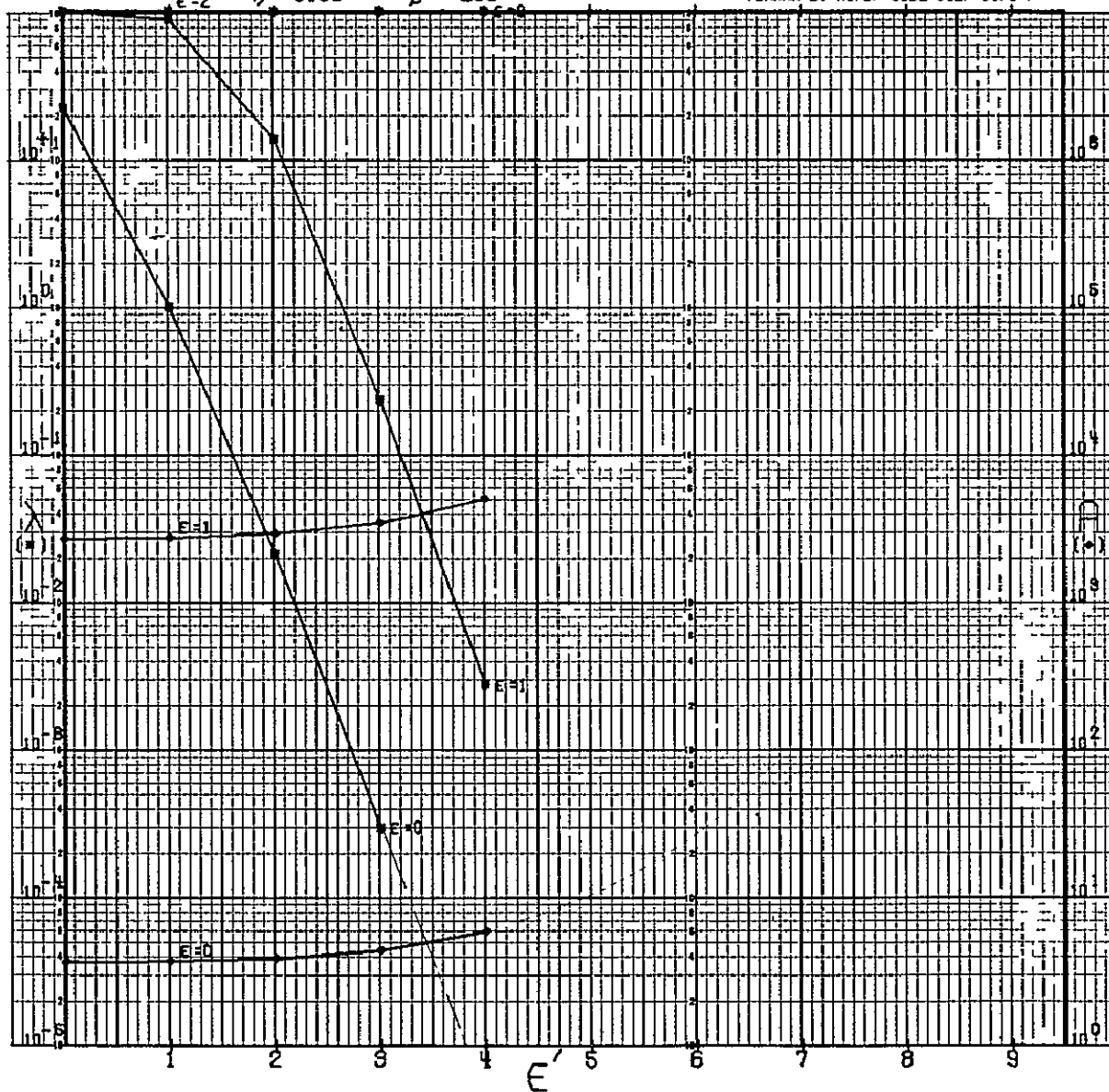
N = 8

CODE 10111000
GSFC STANDARD

$\epsilon = 2$ $\eta = 0.0100$

$\beta = 200$

(DRAWN BY AOPB, CODE 542, GSFC)



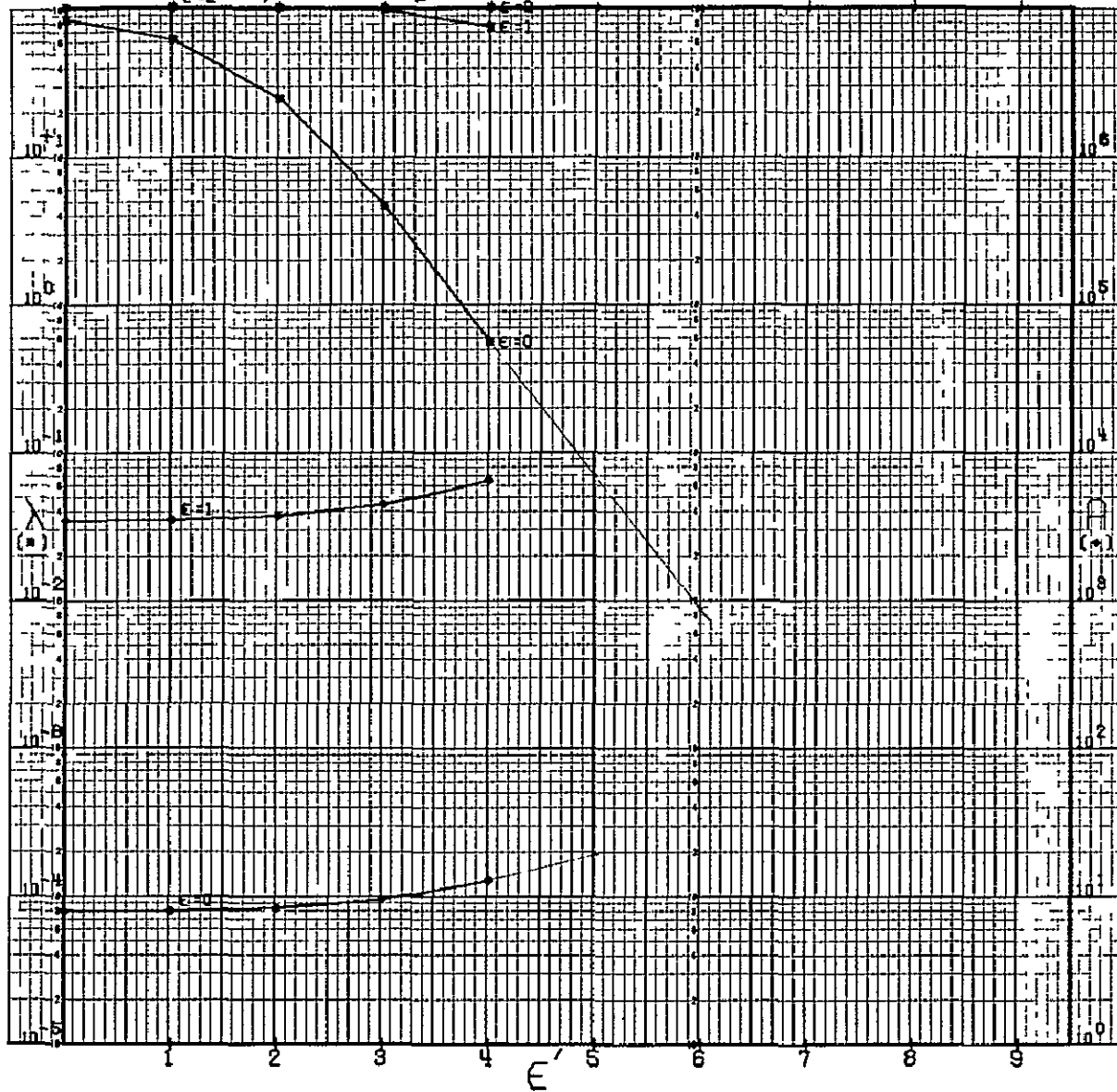
$N = 8$

CODE 10111000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSFC)



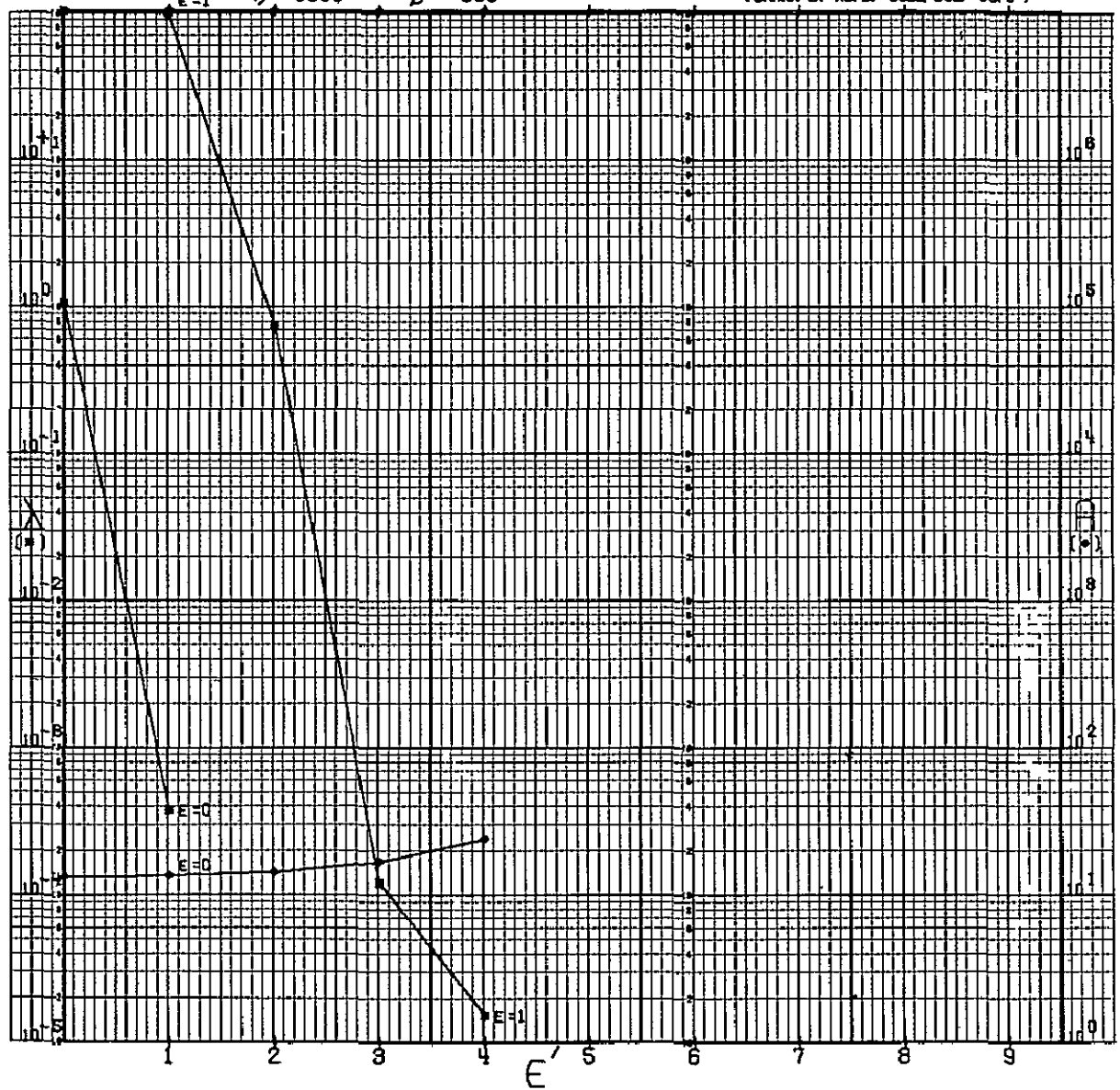
N = 8

CODE 10111000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)



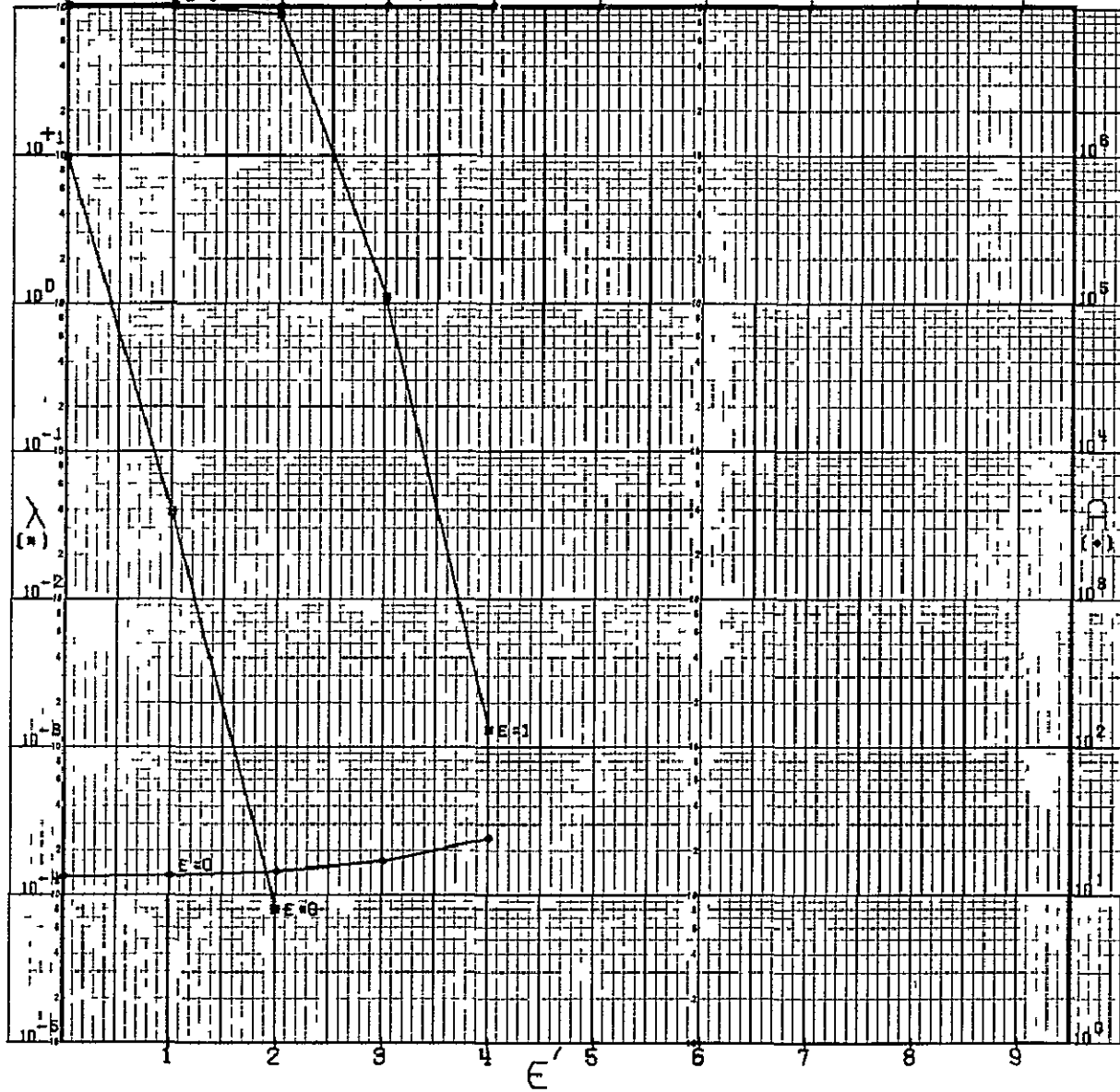
N = 8

CODE 10111000
GSFC STANDARD

$\epsilon = 1$ $h = .0010$

$\beta = 500$

(DRAWN BY ADPB, CODE 542, GSFC)



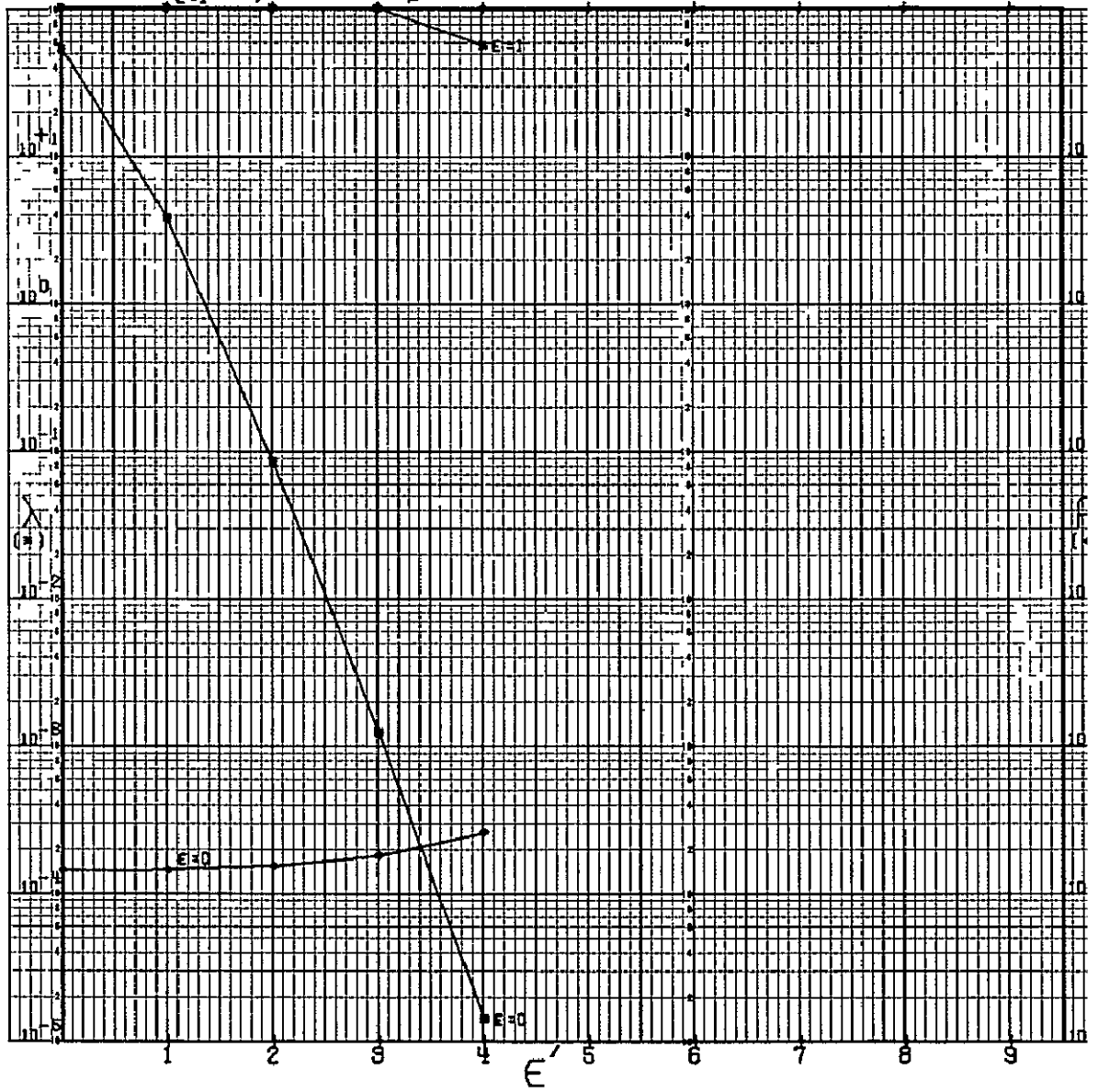
N = 8

CODE 10111000
GSFC STANDARD

$\eta = +0100$

$\beta = 500$

(DRAWN BY ROPL CODE 542, GSFC)



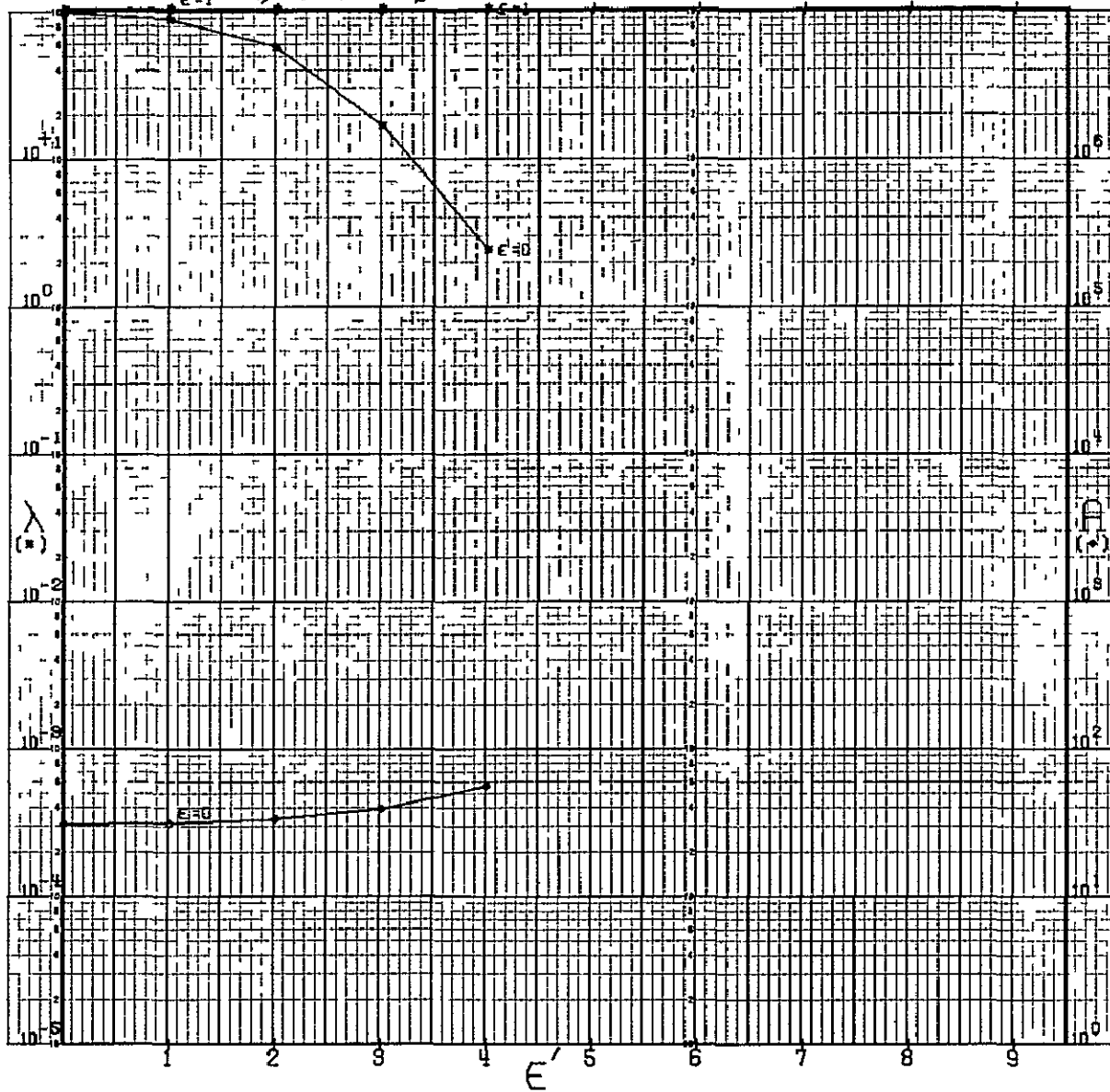
$N = 8$

CODE 10111000
GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ROPEL CODE 542, GSFC)



$$N = 9$$

-

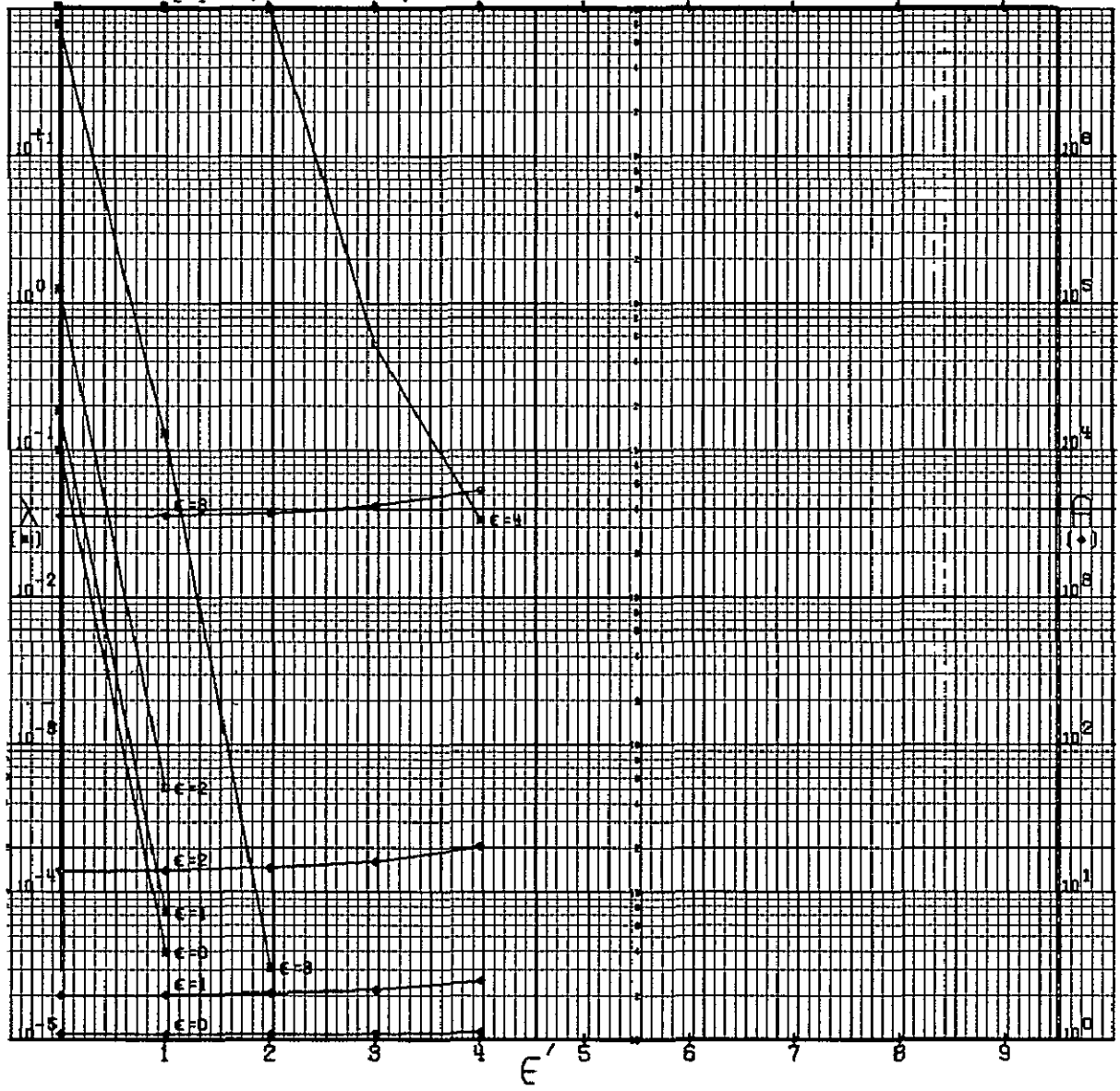
•

9

CODE 101110000
GSFC STANDARD

$\eta = 0.0001$ $\beta = 20$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 9

CODE 101110000

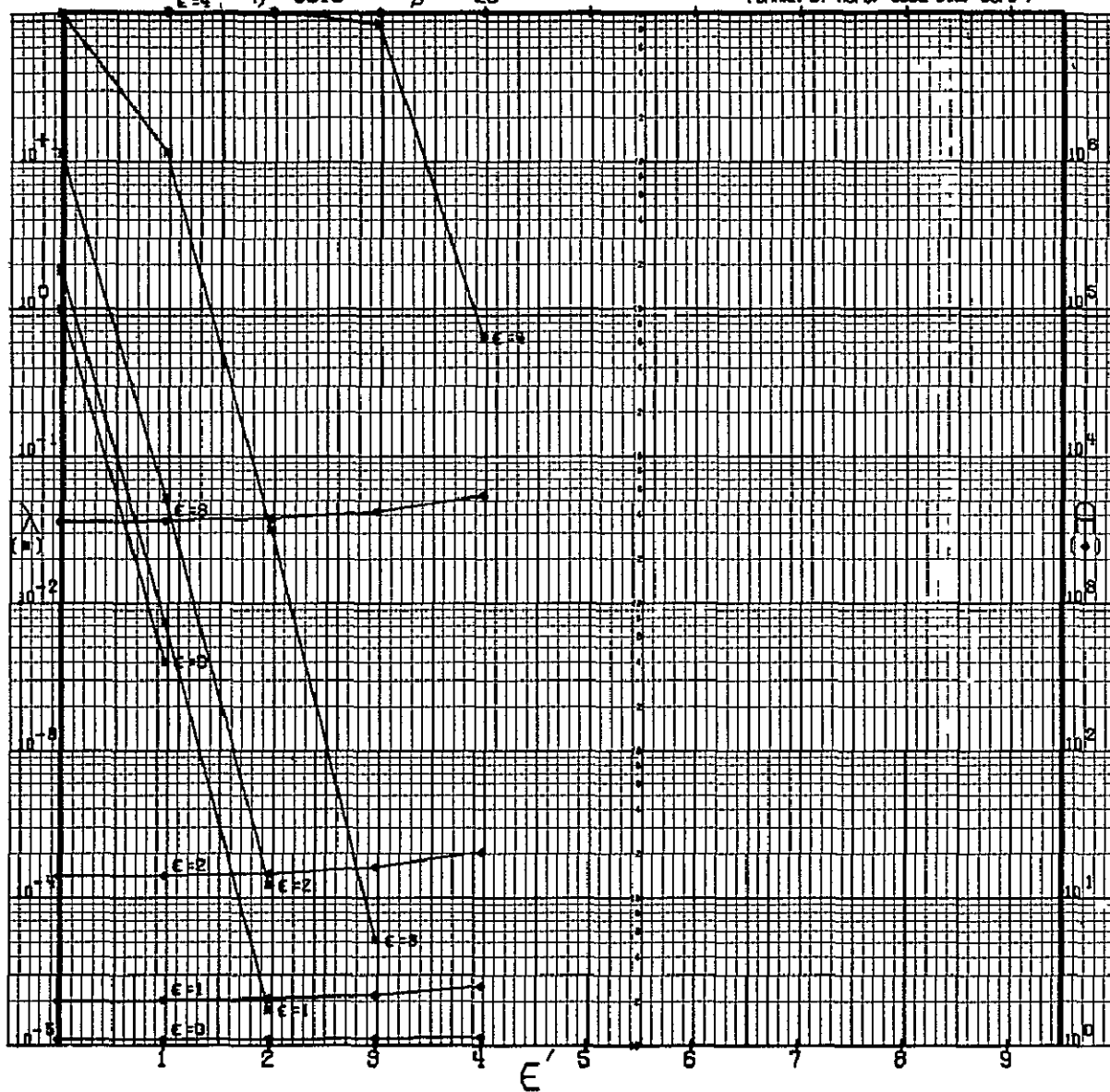
GSFC STANDARD

$\epsilon = 4$

$\eta = +0010$

$\beta = 20$

(DRAWN BY ROPB, CODE 542, GSFC)



X

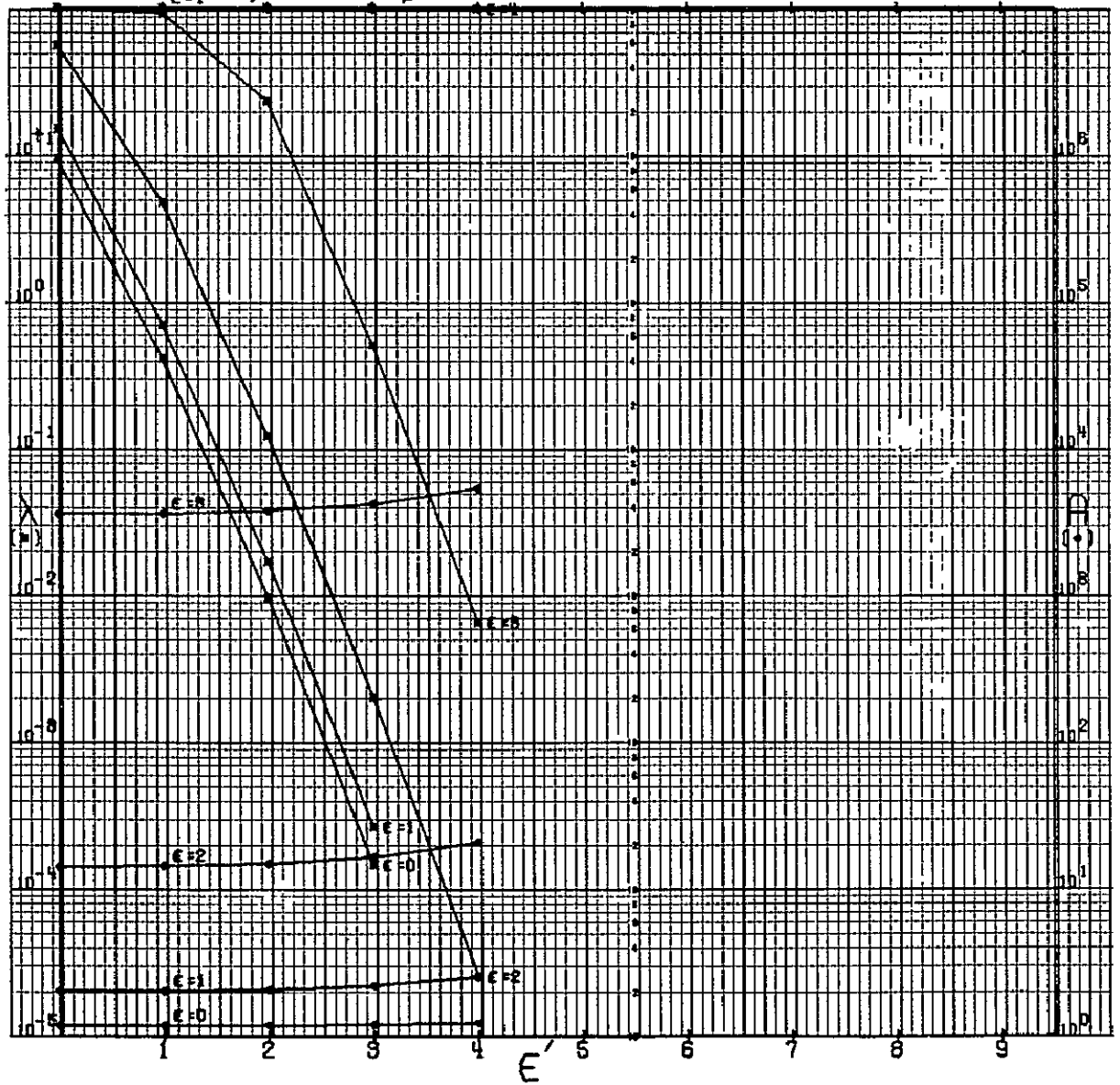
N = 9

CODE 101110000
GSFC STANDARD

$\epsilon = 4$ $h = +0100$

$\beta = 20$

(DRAWN BY AOPS, CODE 542, GSFC)



W = 9

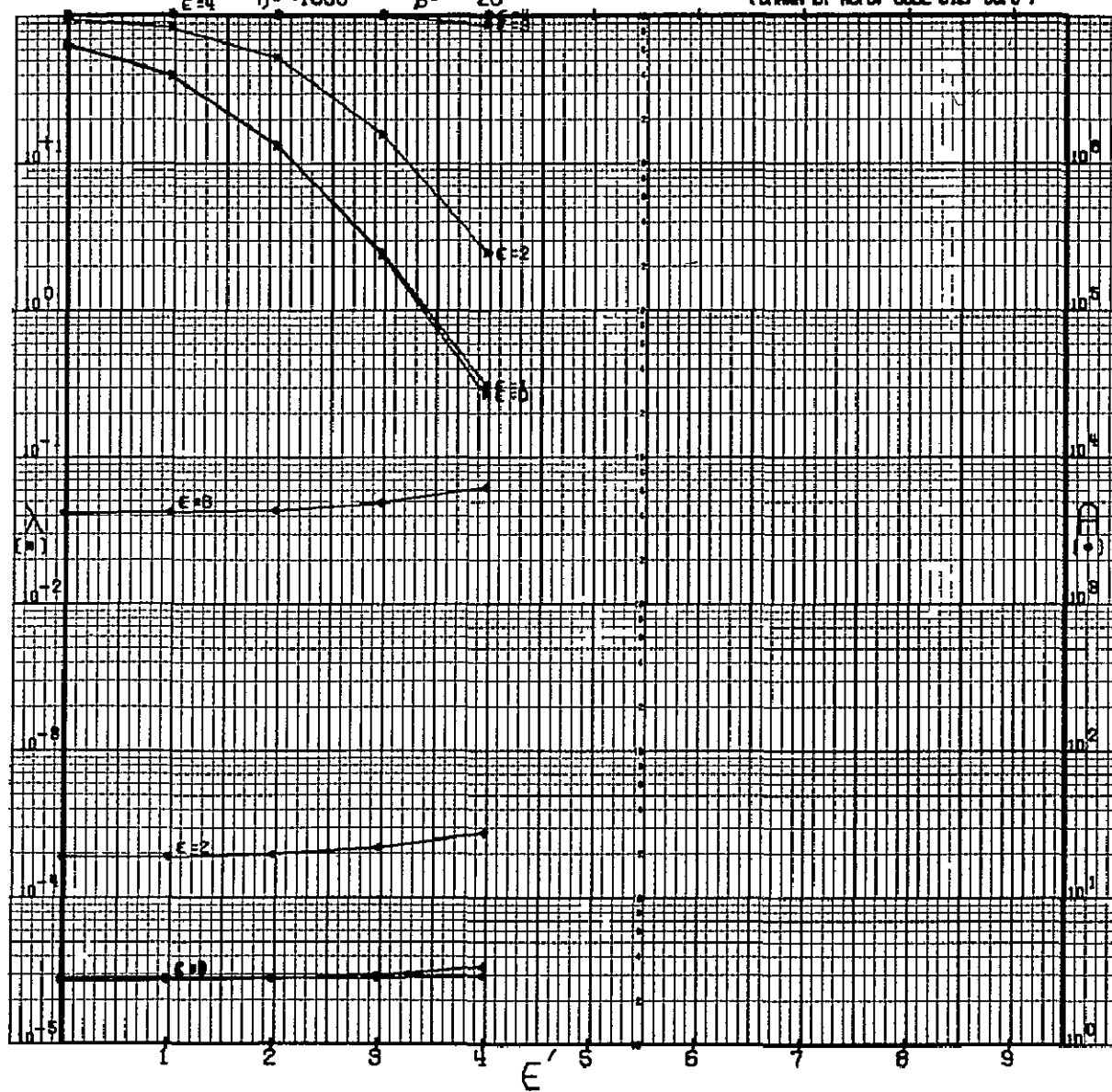
CODE 10110000

GSFC STANDARD

$\eta = +1000$

$\beta = 20$

(DRAWN BY ROPB, CODE 542, GSFC)



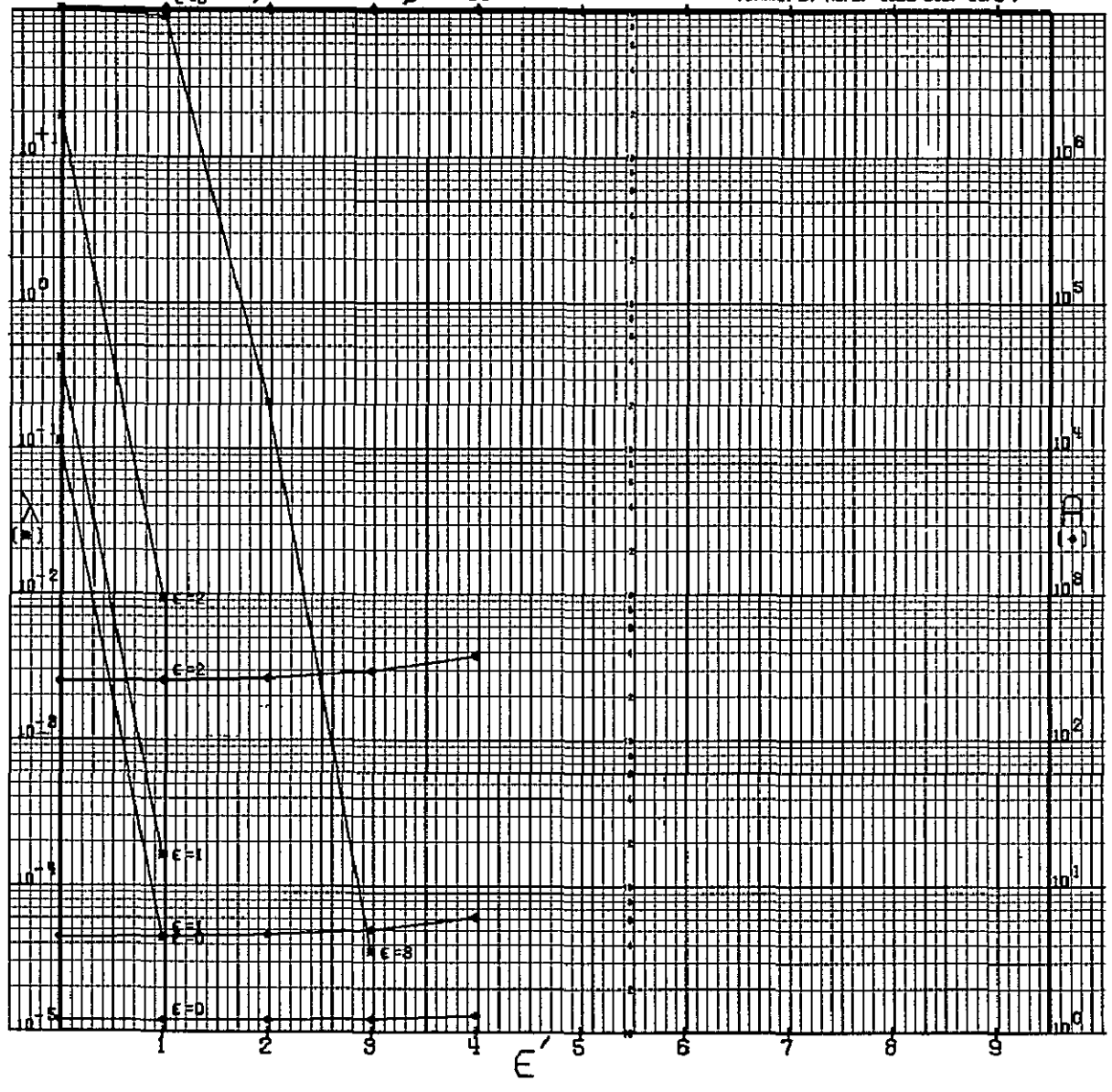
N = 9

CODE 101110000
GSFC STANDARD

$\epsilon = 8$ $b = +0001$

$\beta = 50$

(DRAWN BY ROPB. CODE 542. GSFC)



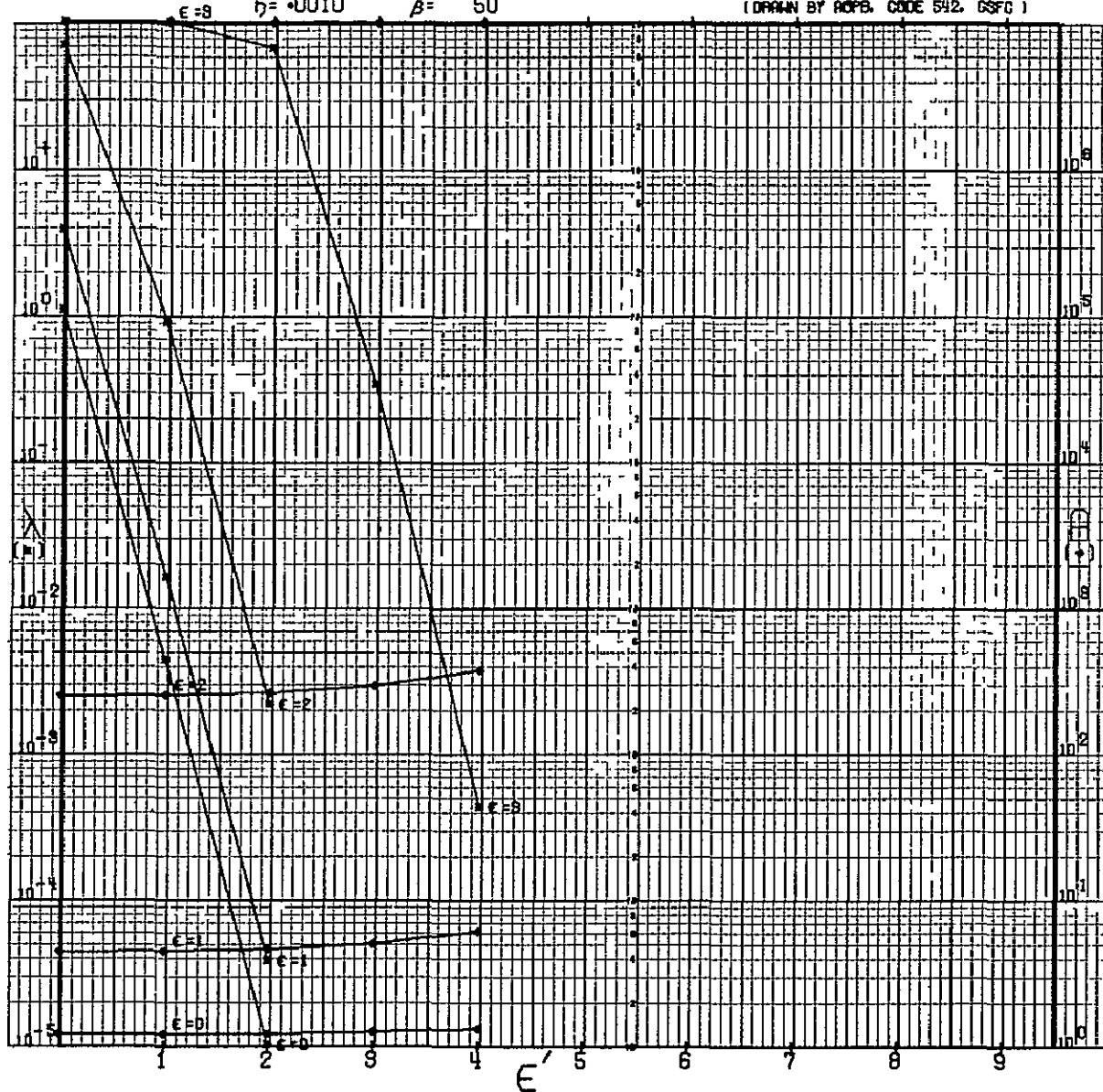
N 9

CASE 101110000
GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY ROFB, CODE 542, GSFC)



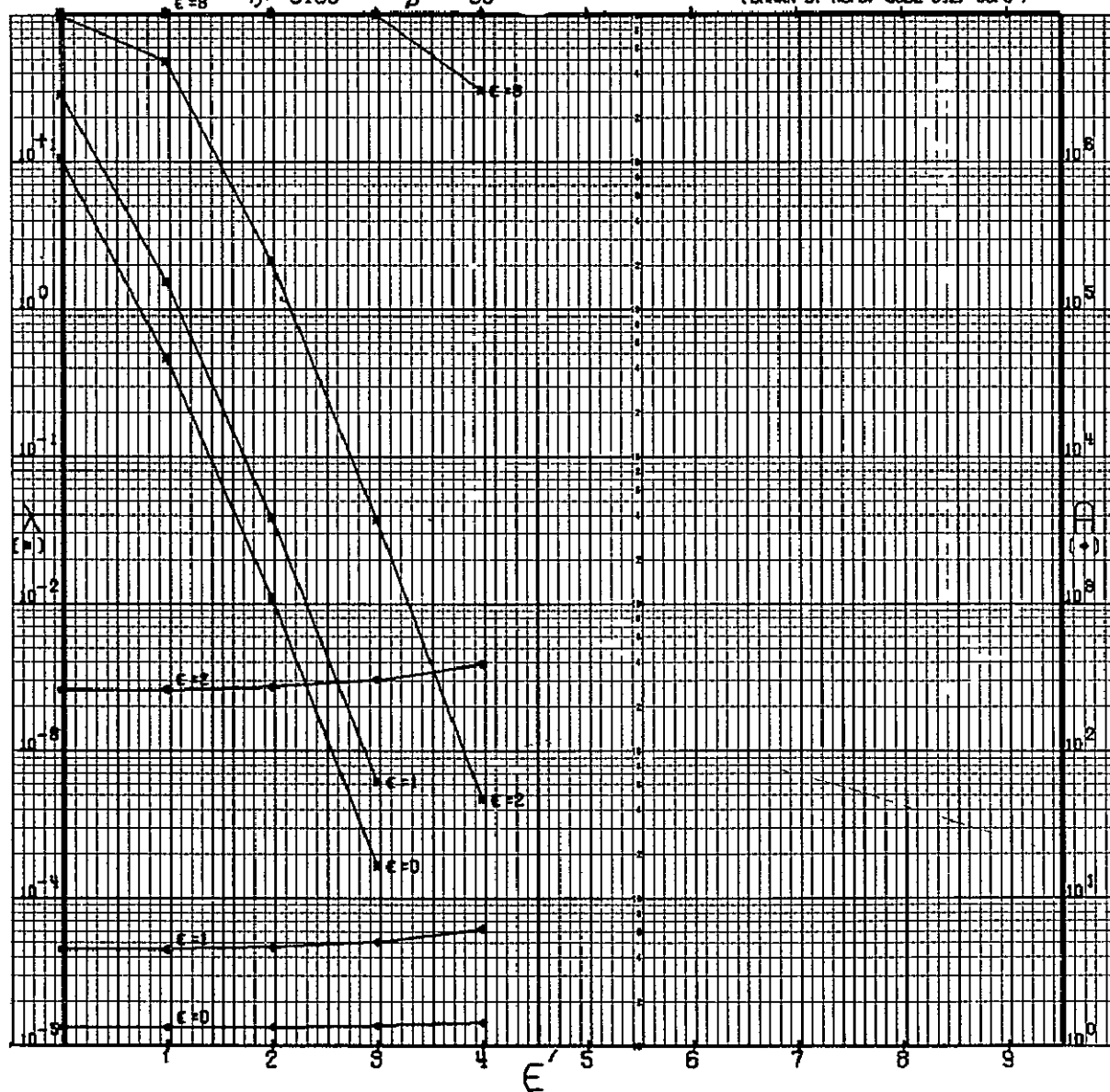
N 9

CODE 101110000
GSFC STANDARD

$\eta = +0100$

$\beta = 50$

(DRAWN BY ACPE, CODE 542, GSFC)



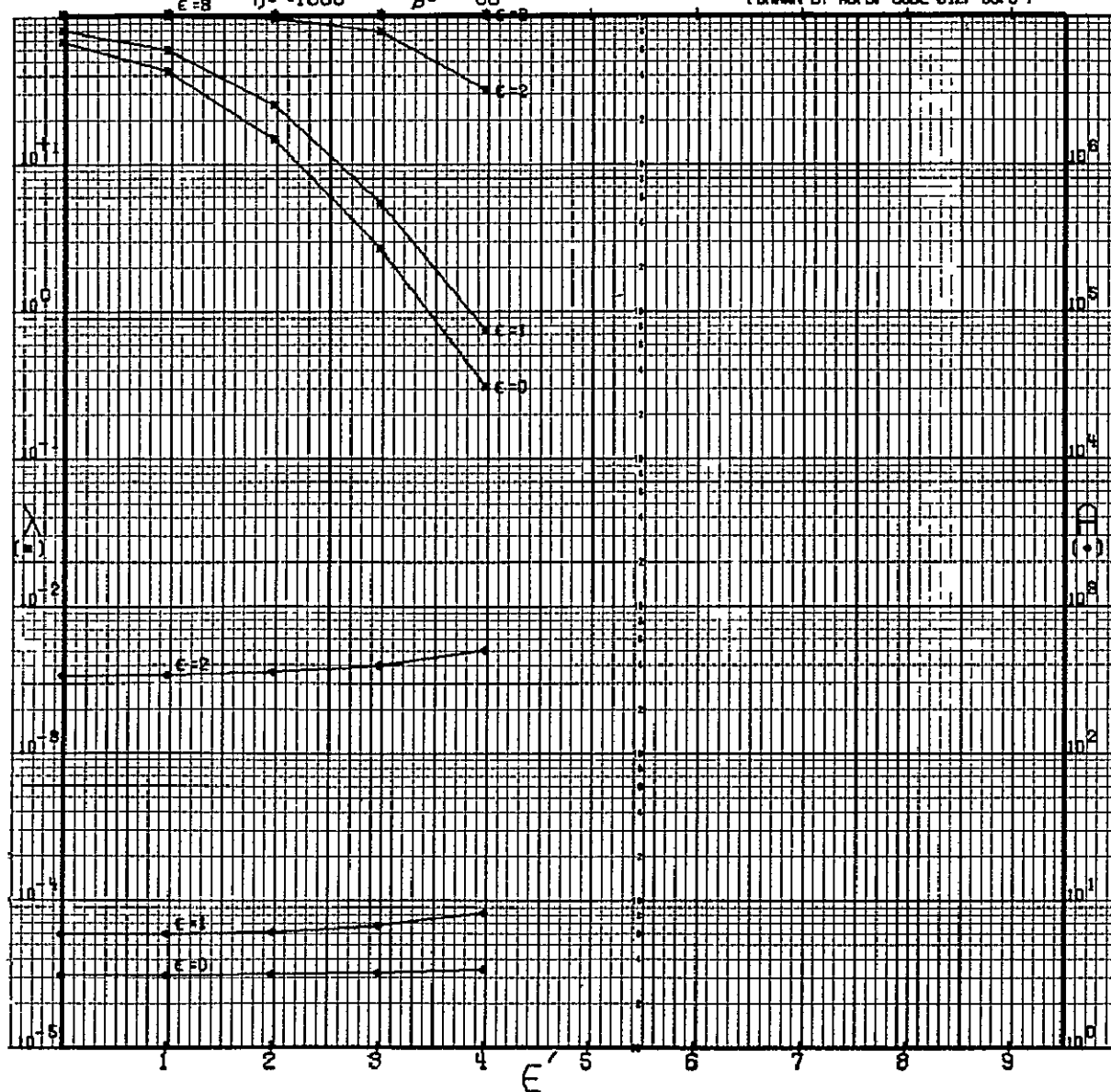
N = 9

CODE 101110000
GSFC STANDARD

$\eta = +1000$

$\beta = 50$

(DRAWN BY ADPB, CODE 542, GSFC)



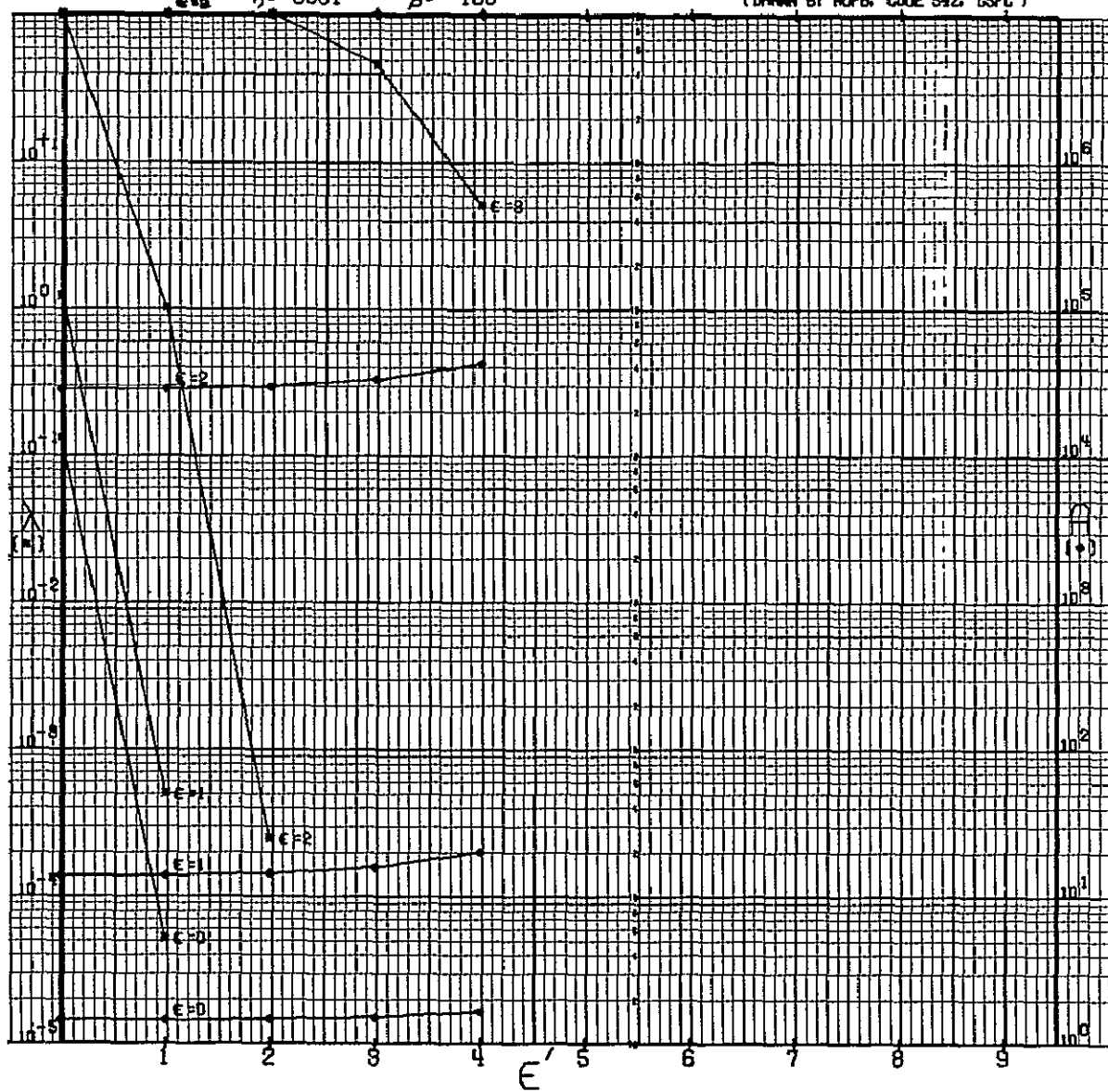
N = 9

CODE 101110000
GSFC STANDARD

$h = 0.0001$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



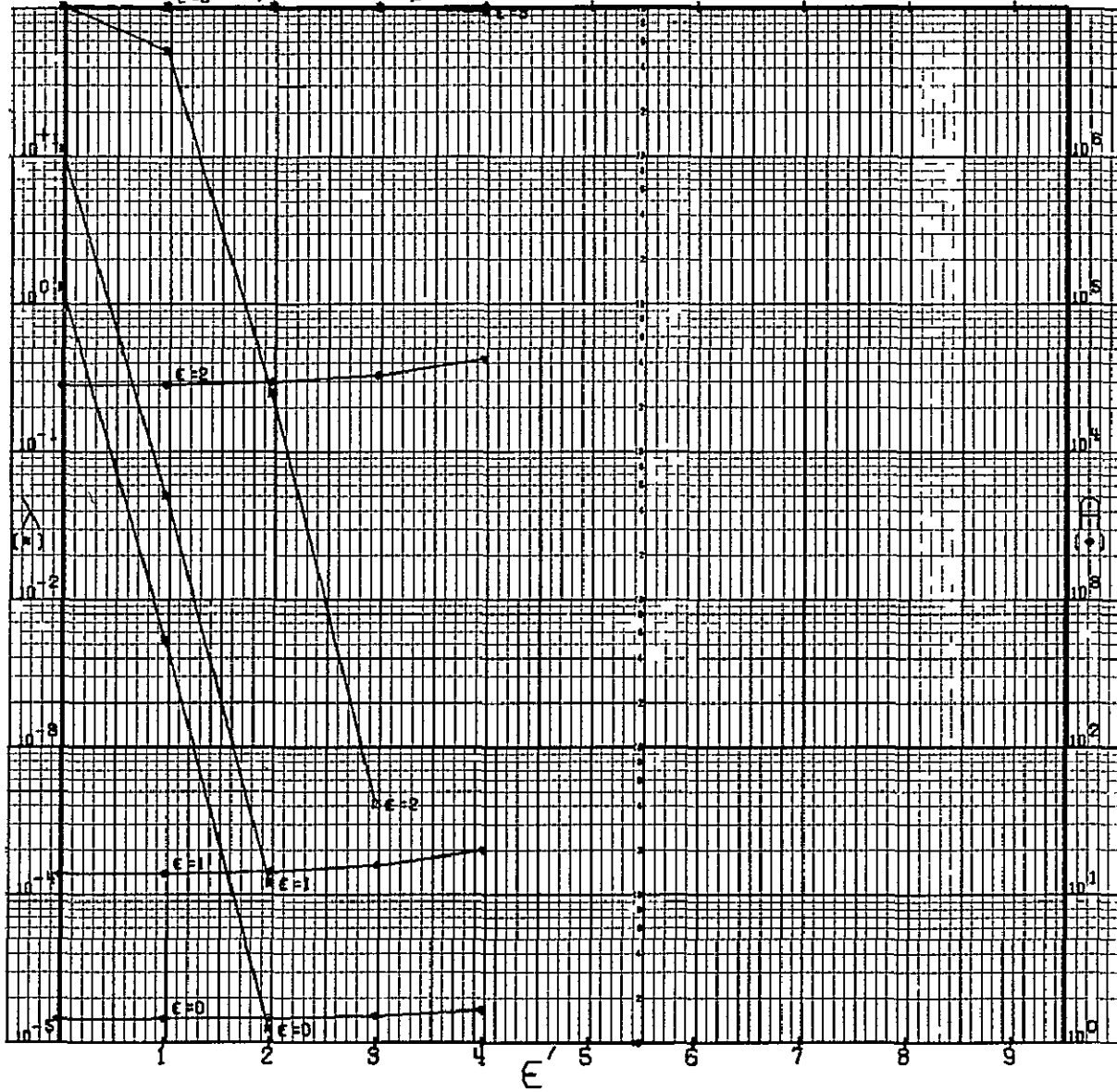
N = 9

CODE 10110000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



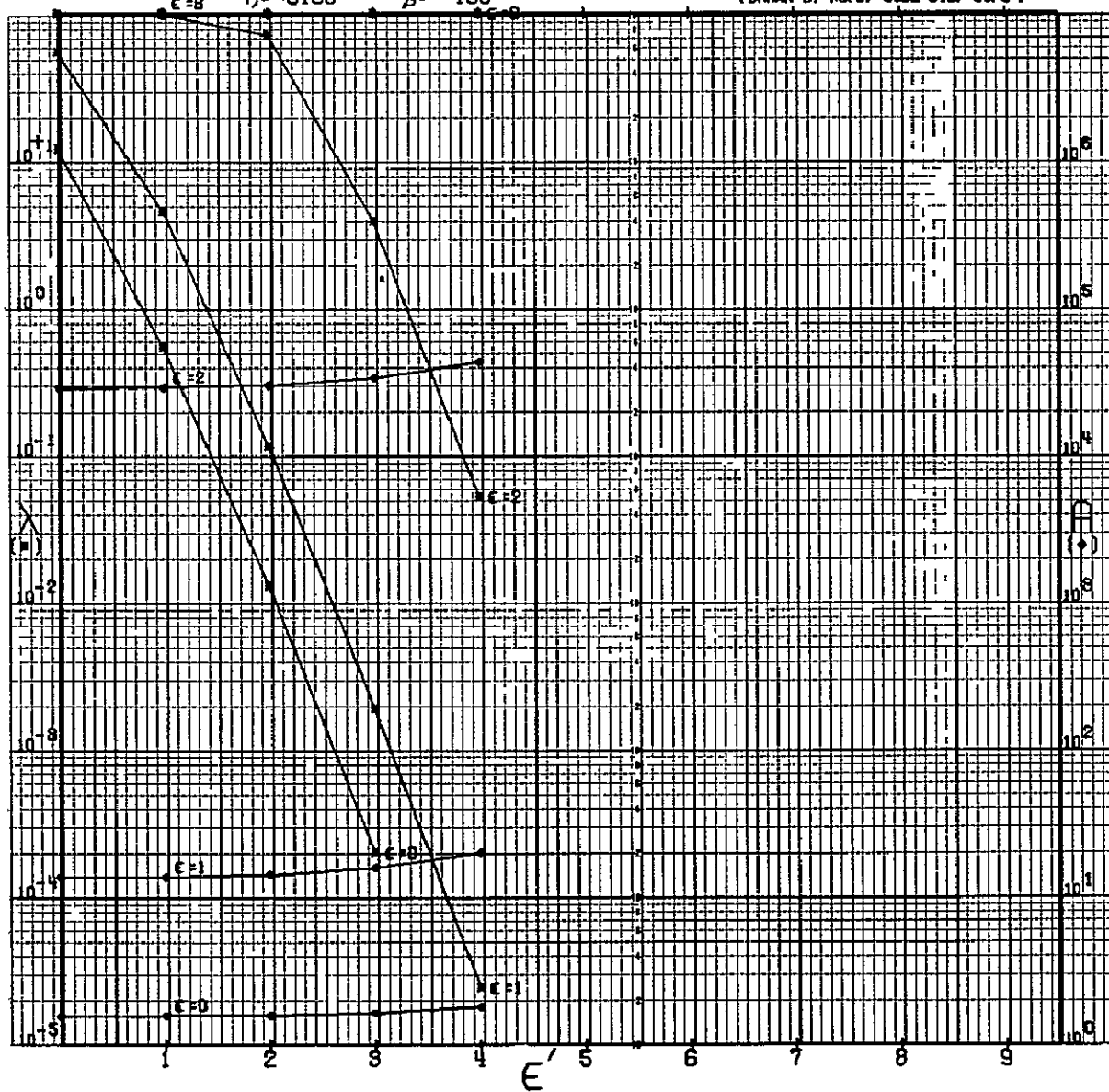
N = 9

CODE 101110000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.100$

$\beta = 100$

(DRAWN BY AOPB. CODE 512, GSFC)



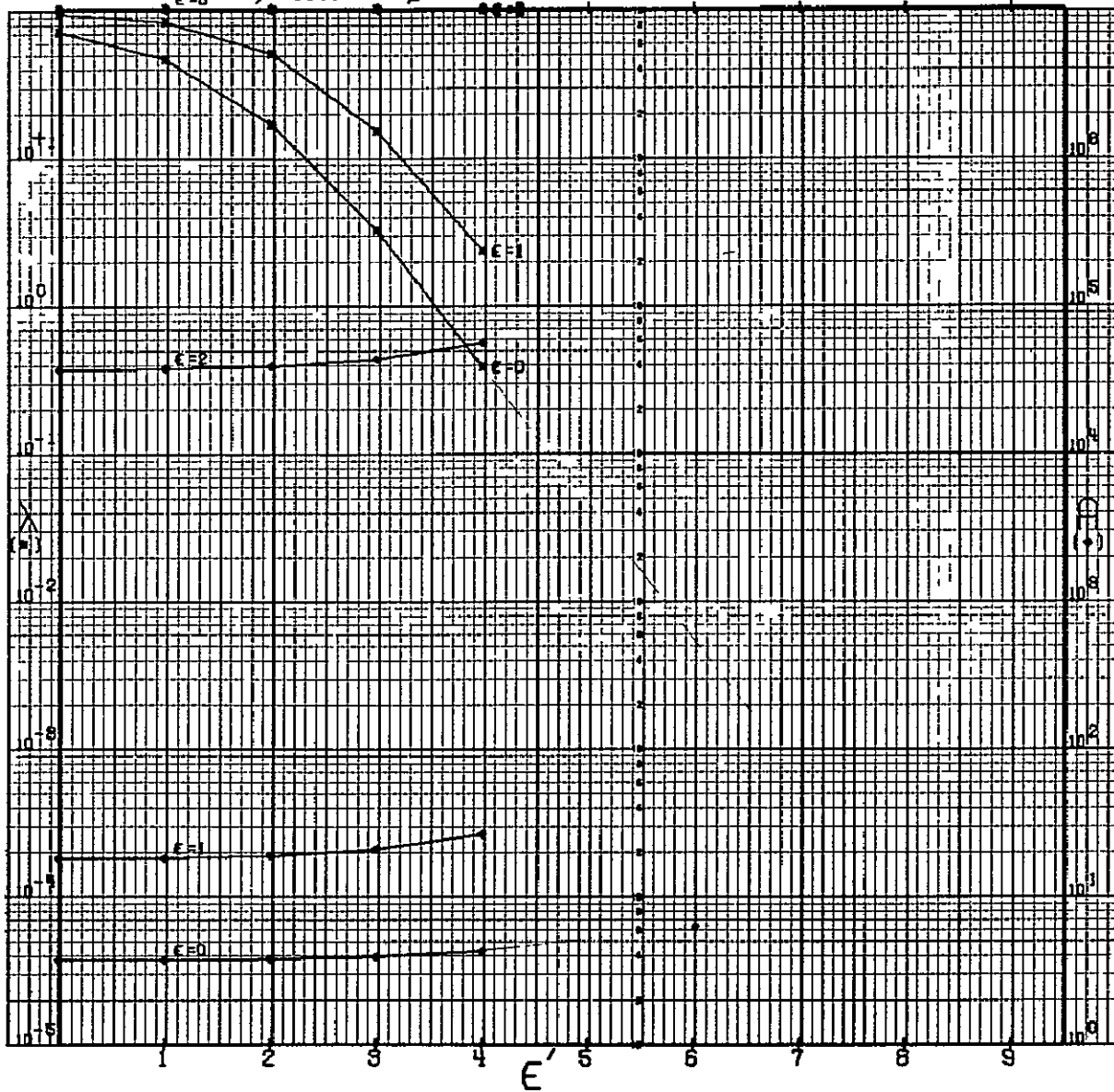
= 9

CODE 101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ADPBL CODE 542, GSFC)



N = 9

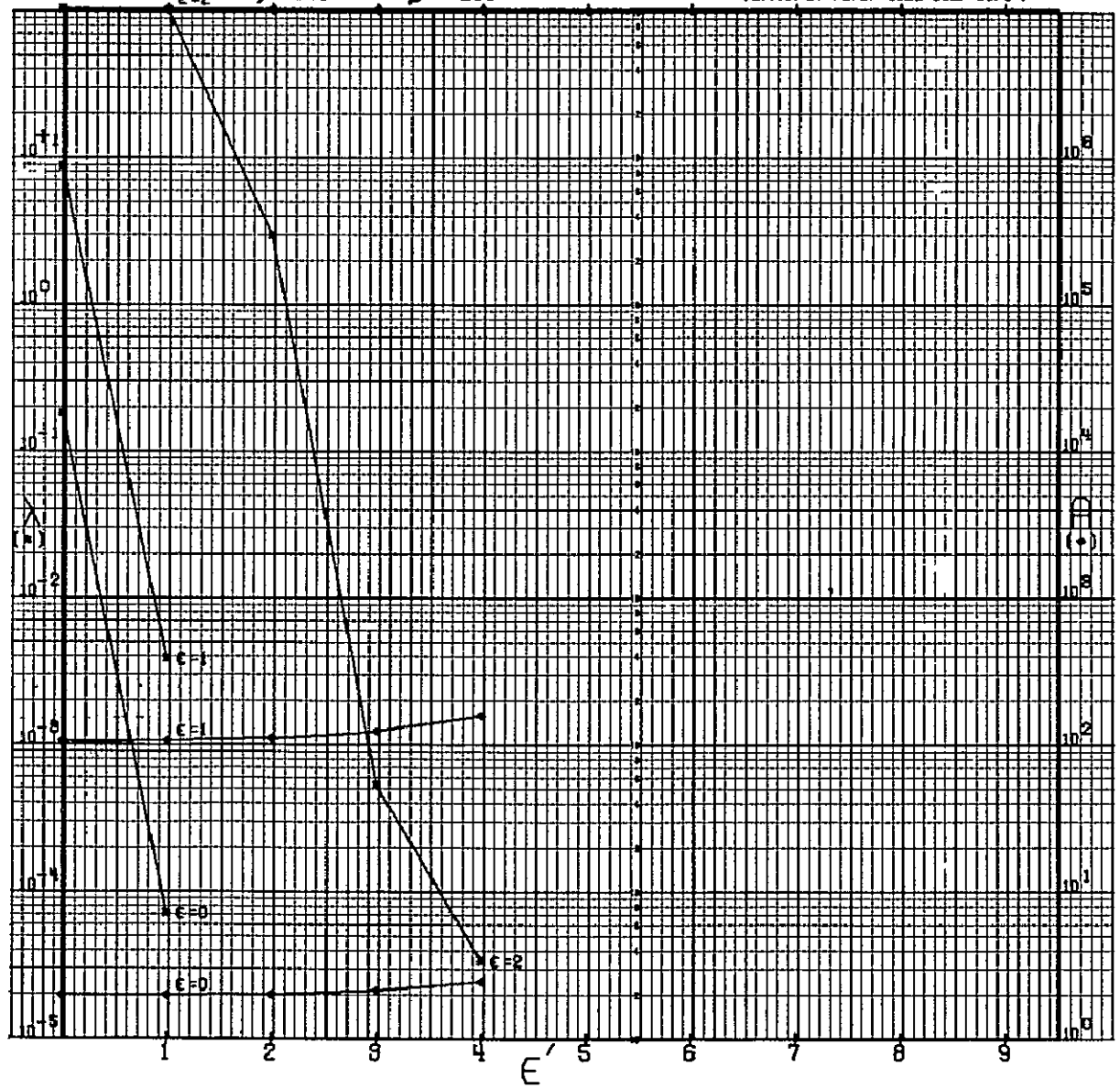
CODE 101110000
GSFC STANDARD

$\epsilon = 2$

$\eta = +0001$

$\beta = 200$

(DRAWN BY ACPB, CODE 542, GSFC)



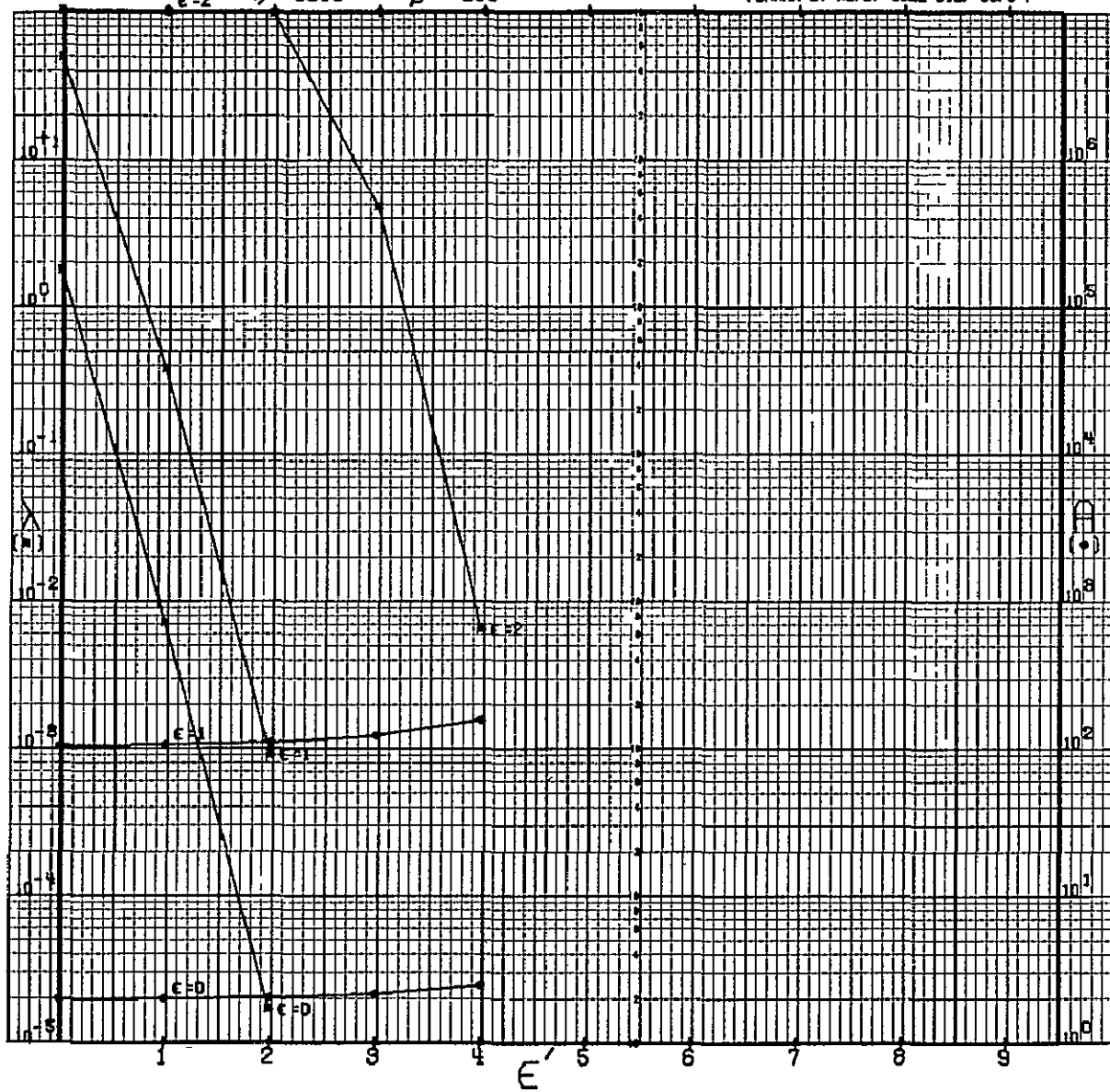
N = 9

CODE 101110000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0010$

$\beta = 200$

(DRAWN BY ROPE, CODE 542, GSFC)



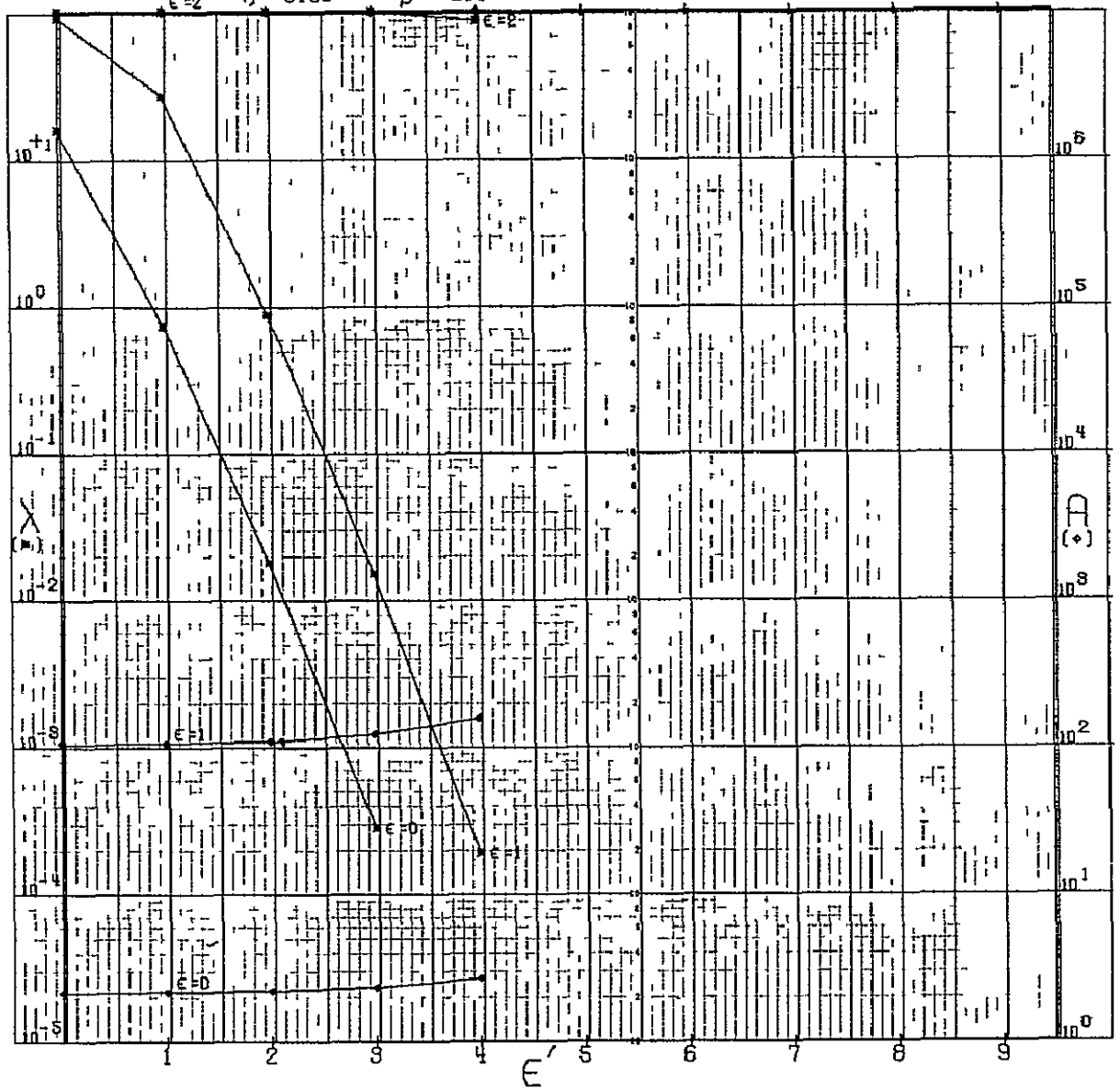
N # 9

CODE 101110000
CSFC STANDARD

$\epsilon = 2$ $\eta = 0.100$

$\beta = 200$

(DRAWN BY ADPB, CODE 542 CSFC)



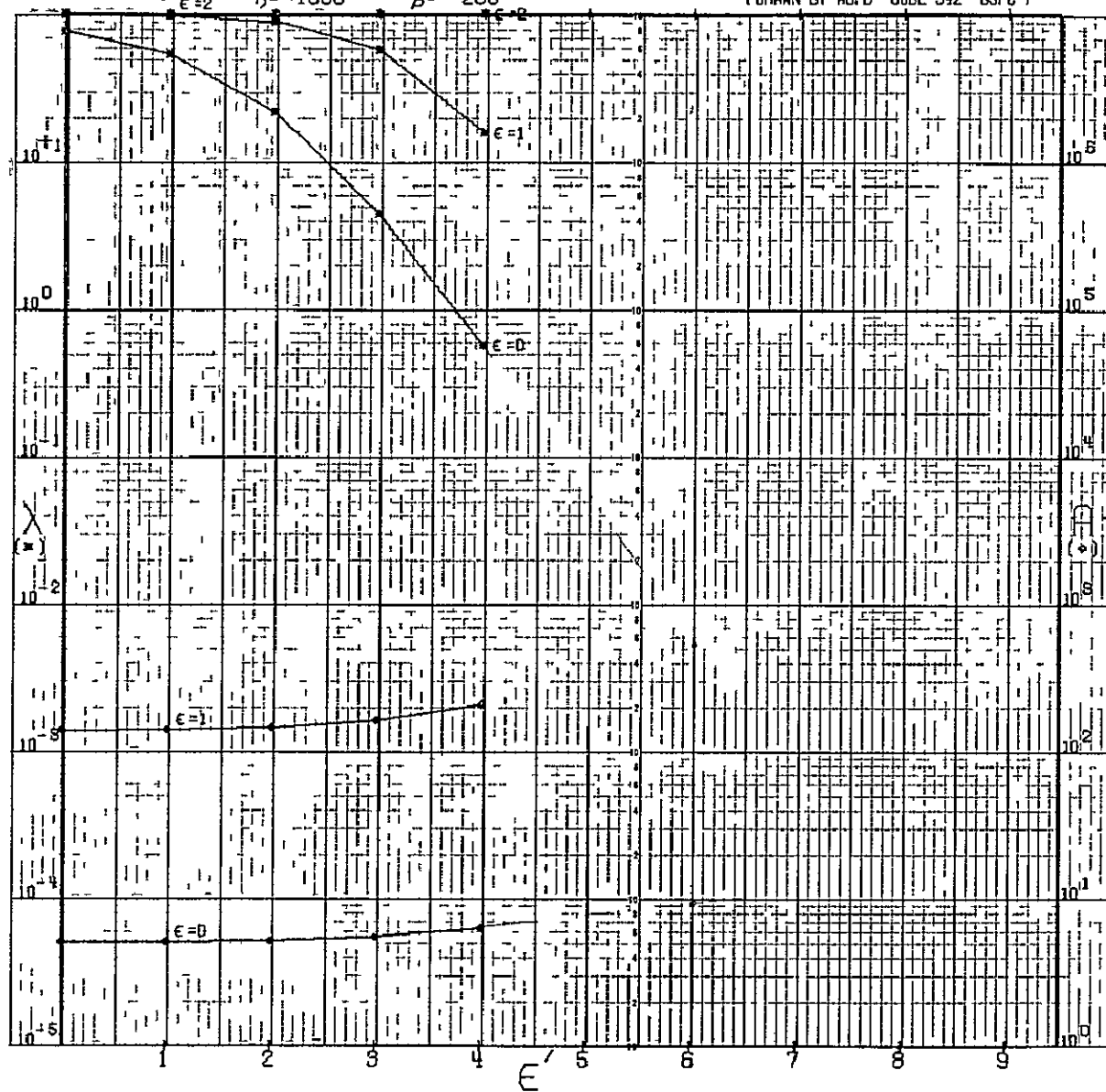
N = 9

CODE 101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPB CODE 542 GSFC)



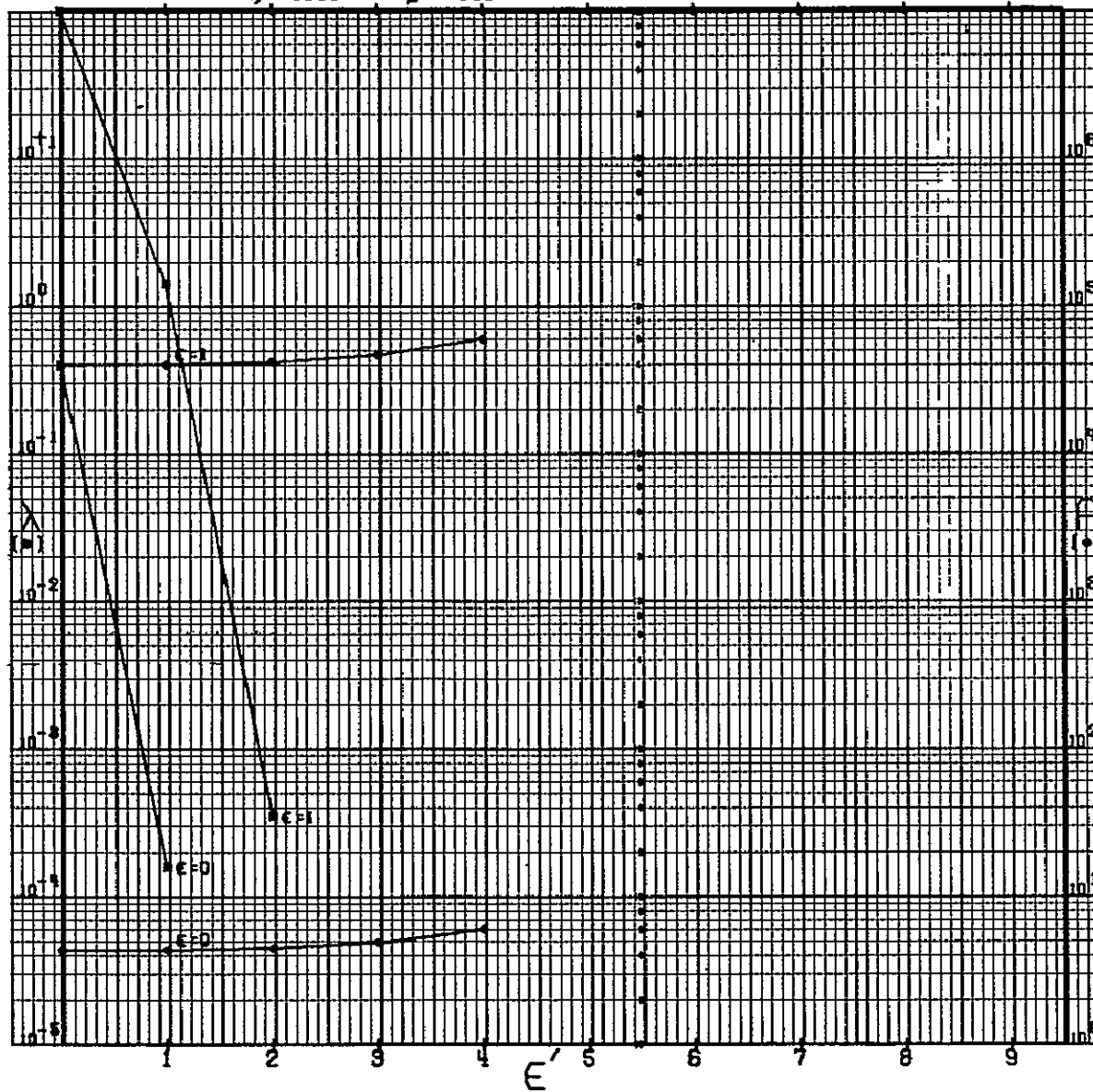
N = 9

CODE 101110000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 500$

(DRAWN BY ROPB. CODE 512. GSFC)



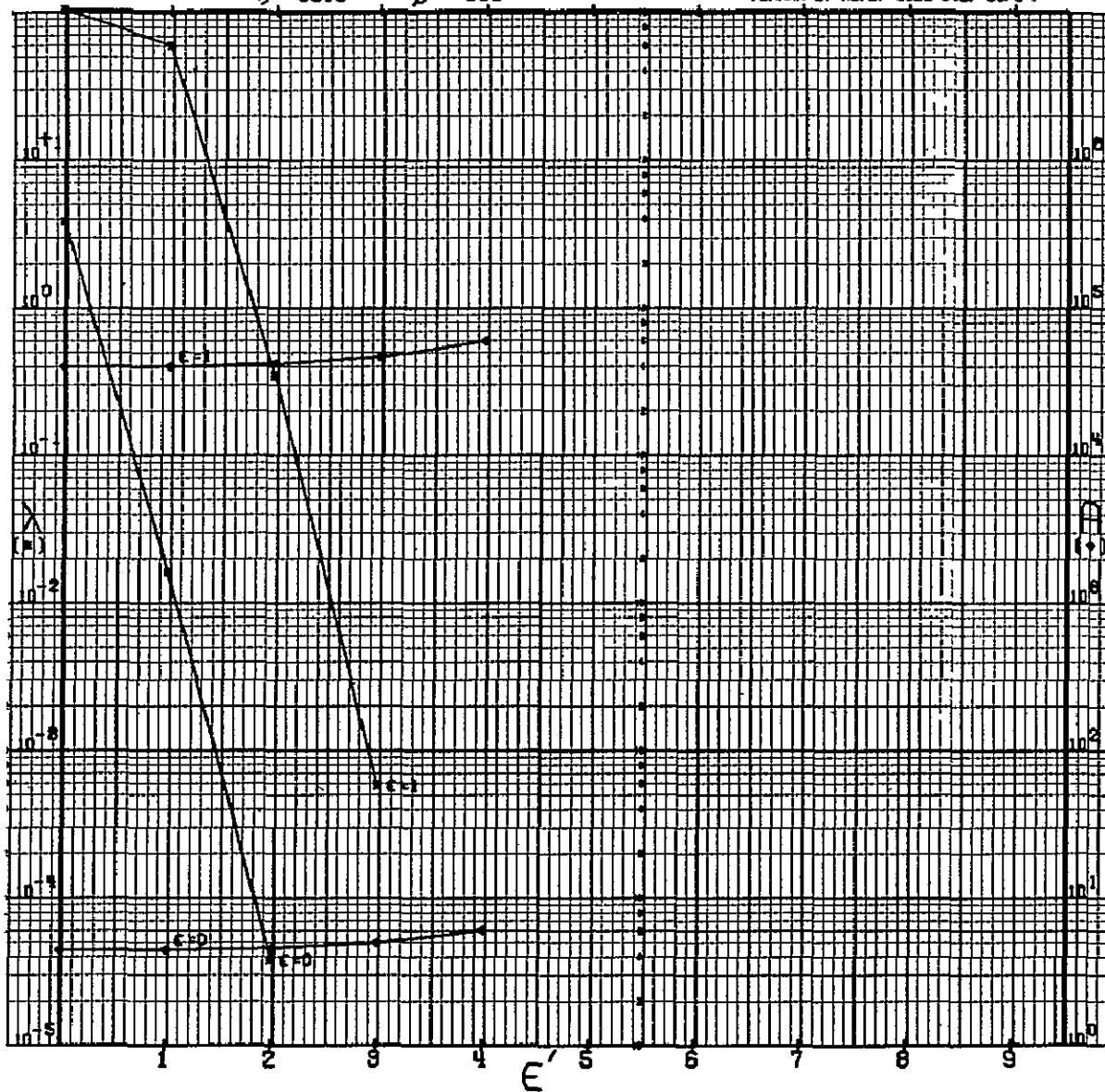
$N = 9$

CODE 101110000
GSFC STANDARD

$\eta = -0010$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



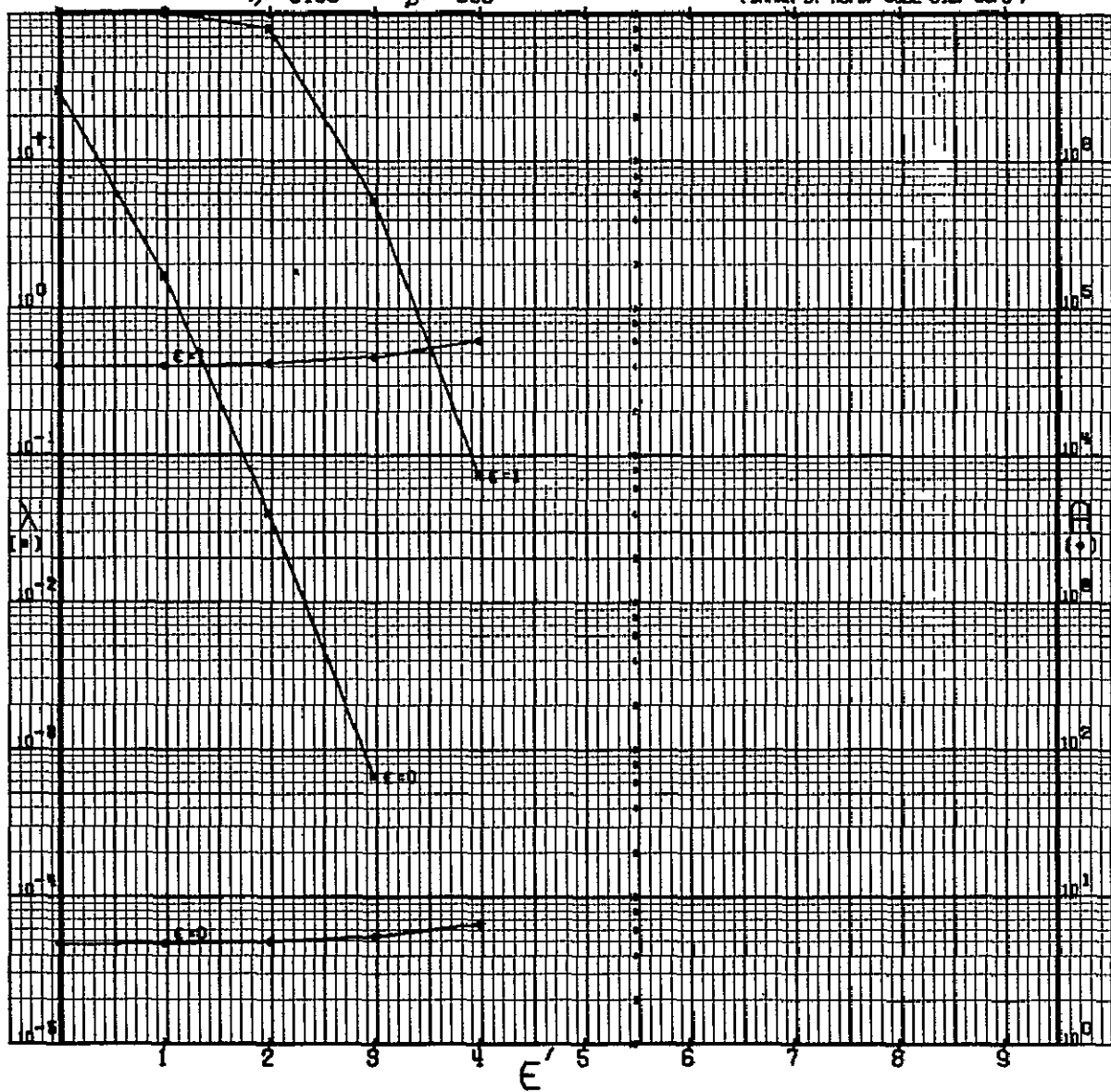
N = 9

CODE 101110300
GSFC STANDARD

$\eta = +0100$

$\beta = 500$

(DRAWN BY ROFB, CODE 542, GSFC)

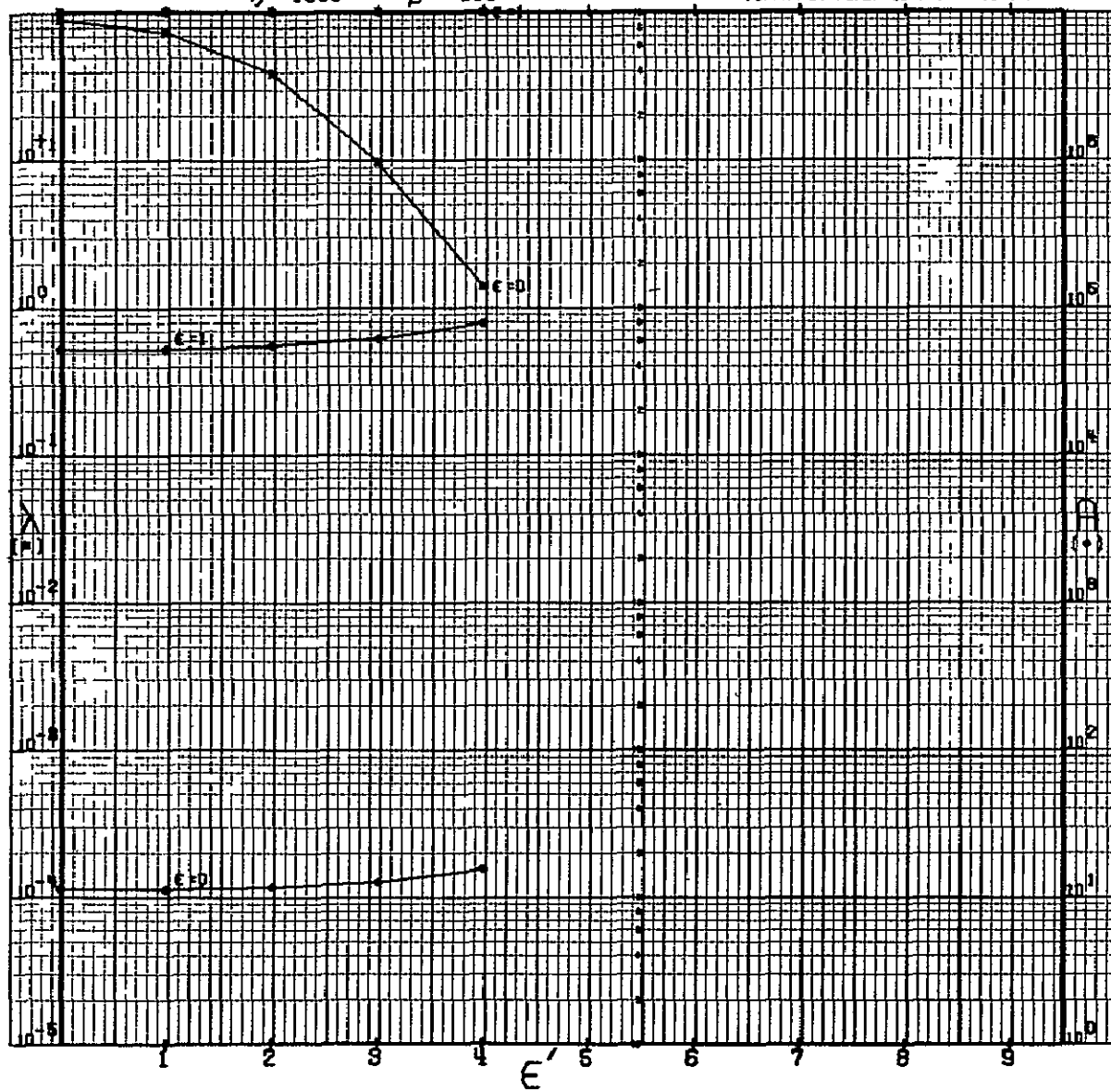


N = 9
CODE 101110000
GSFC STANDARD

$\eta = +1000$

$\beta = 500$

(DRAWN BY ROPS. CODE 512. GSFC)



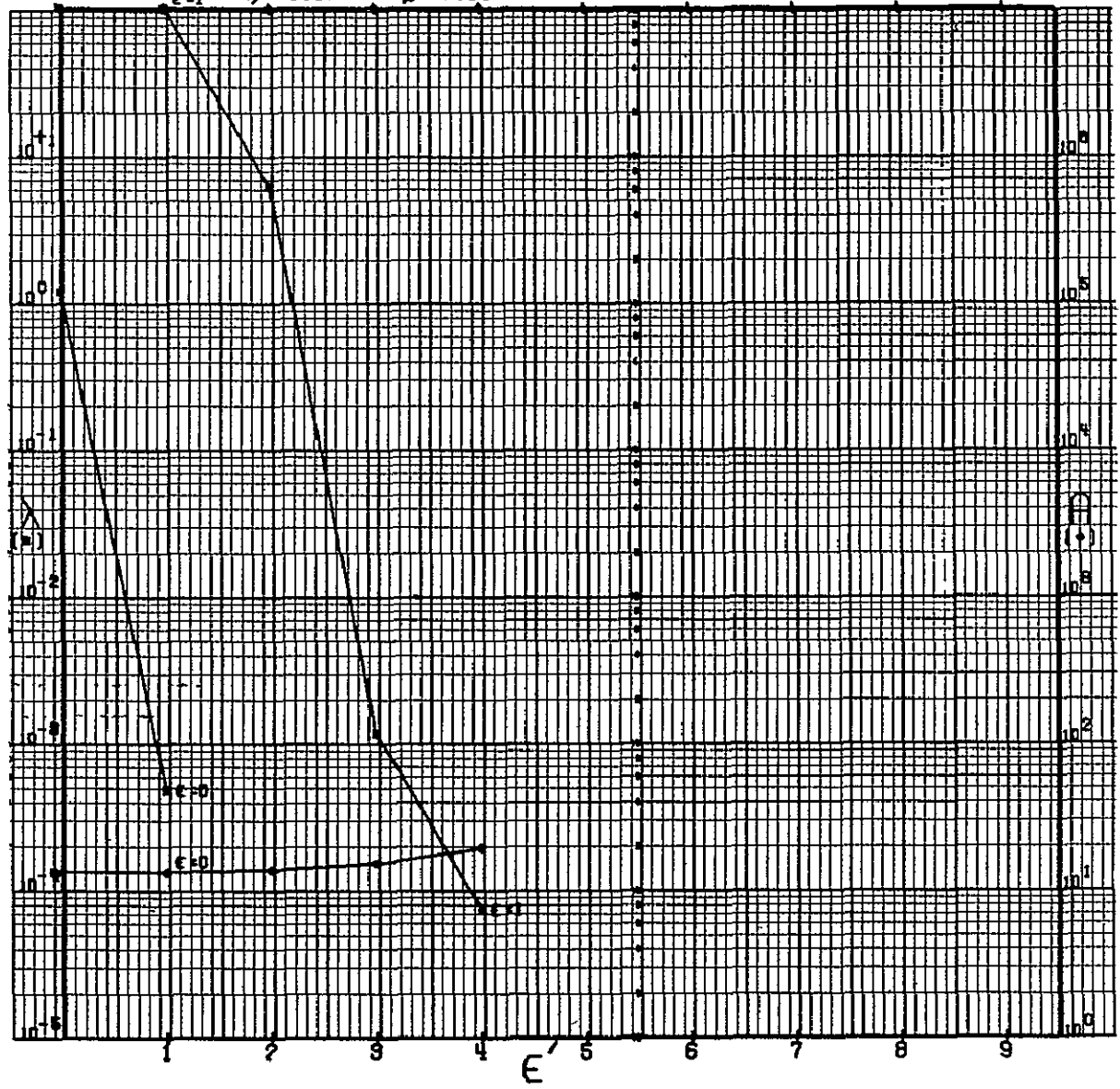
$N_p = 9$

CODE 101110000
GSFC STANDARD

$\epsilon = 1$ $\eta = +0001$

$\beta = 1000$

(DRAWN BY ACPB CODE 512 GSFC)



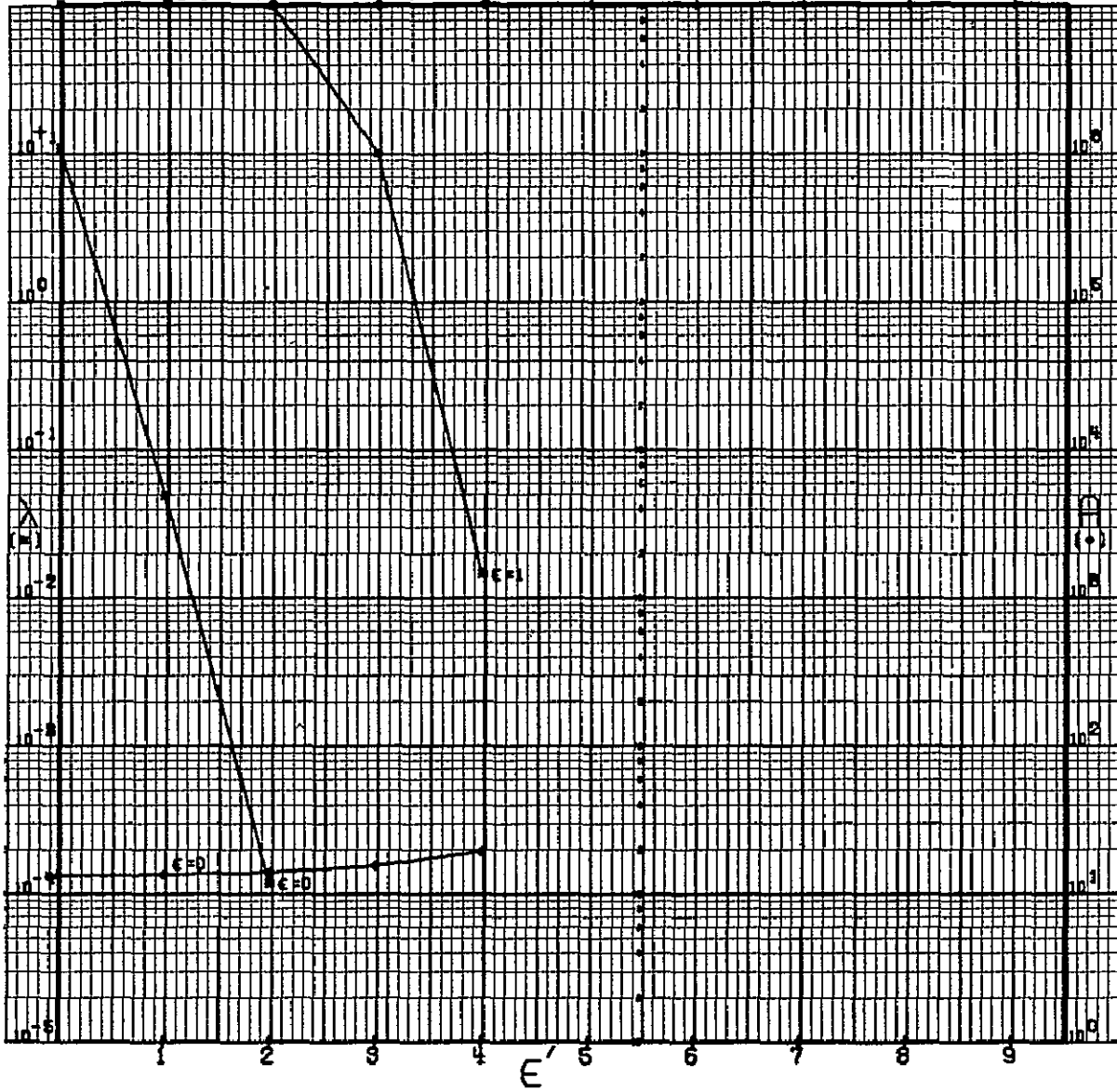
N 9

CODE 101110000
GSFC STANDARD

$\epsilon = 1$ $\eta = +0010$

$\beta = 1000$

(DRAWN BY ROPS. CODE 542. GSFC)



N 9

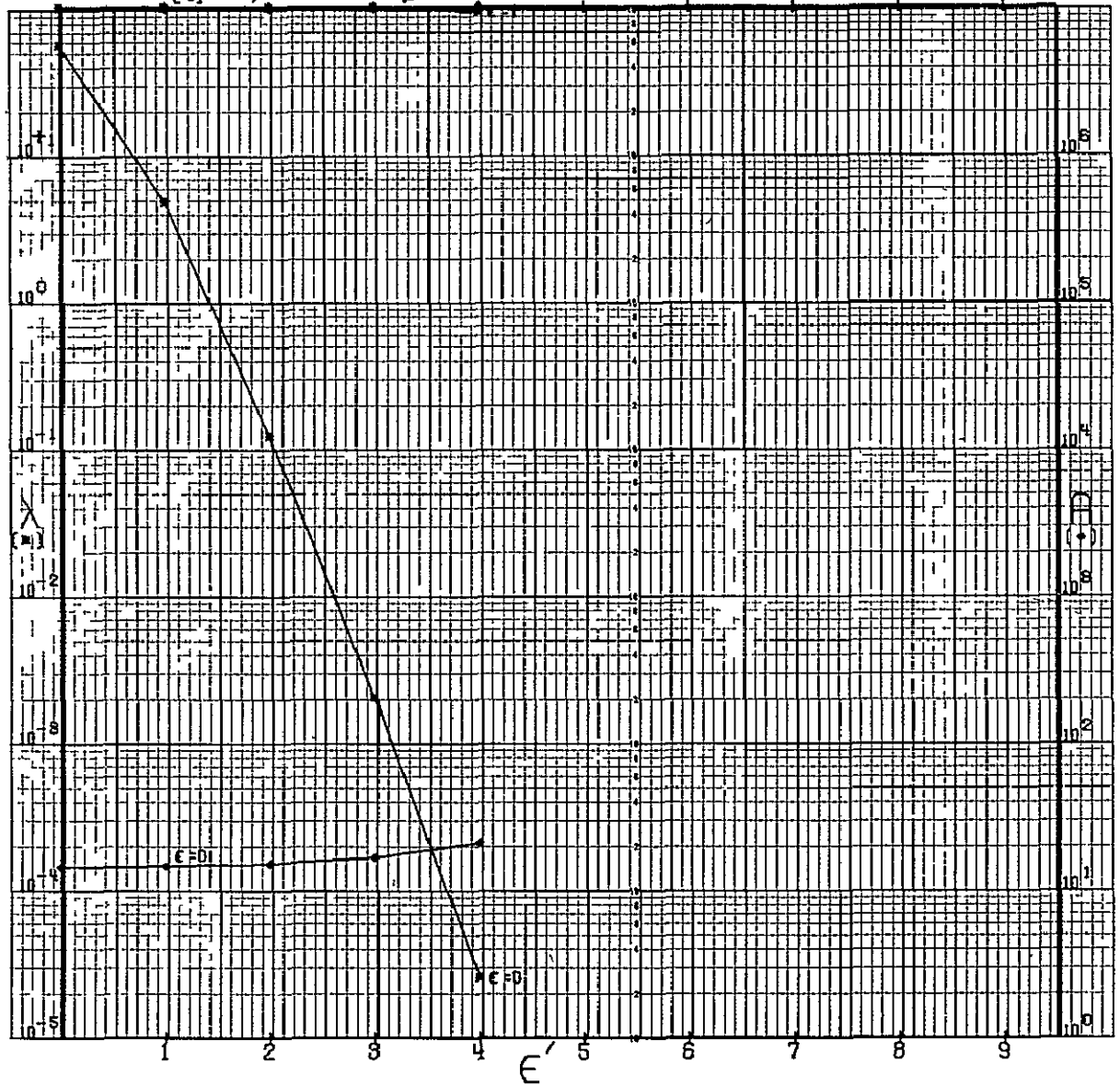
CODE 101110000
GSFC STANDARD

$\epsilon = 1$

$\eta = .0100$

$\beta = 1000$

(DRAWN BY ADP8, CODE 542, GSFC)



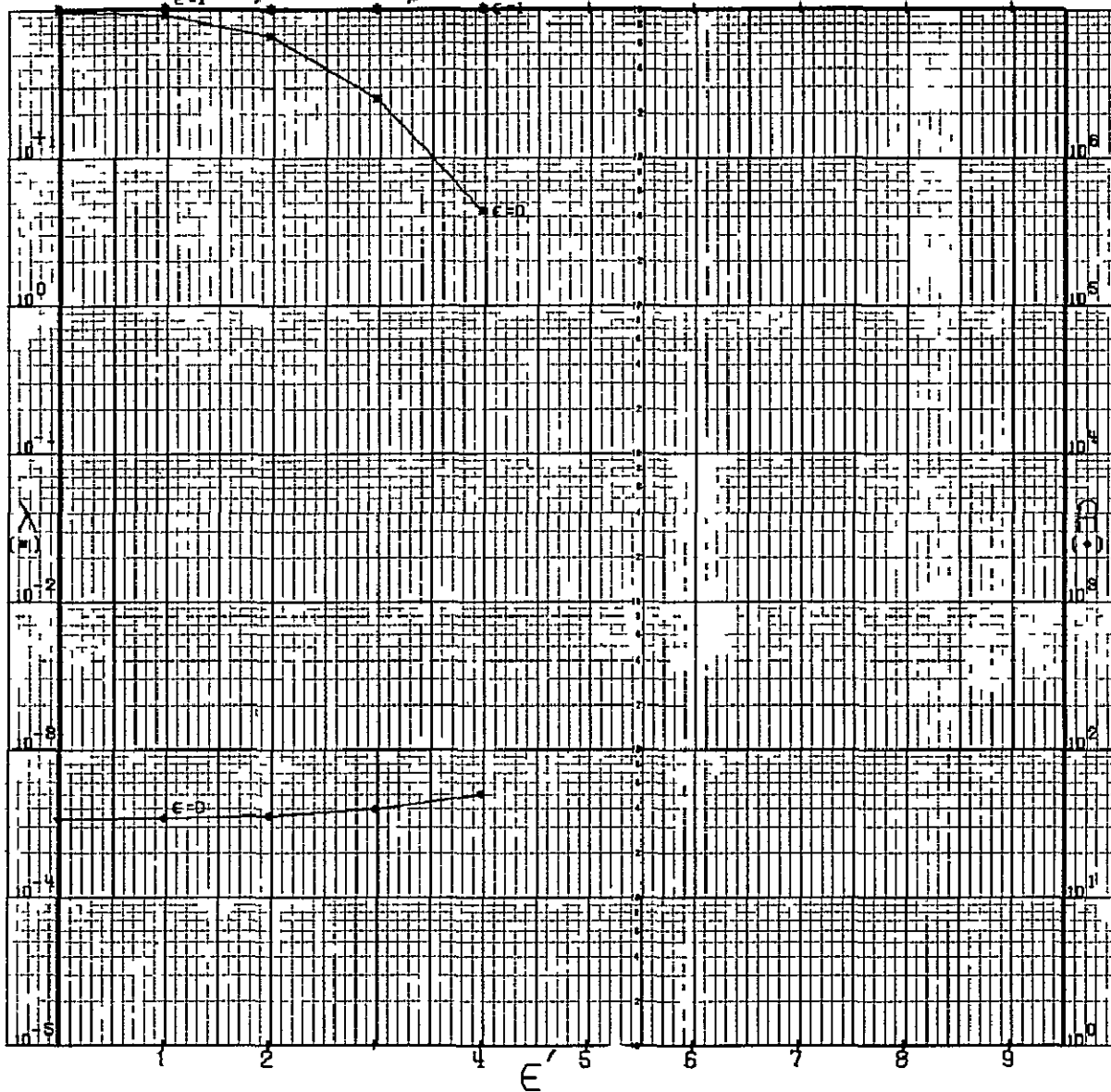
N = 9

CODE 101110000
GSFC STANDARD

$\eta = +1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 592, GSFC)



$$N = 10$$

N = 10

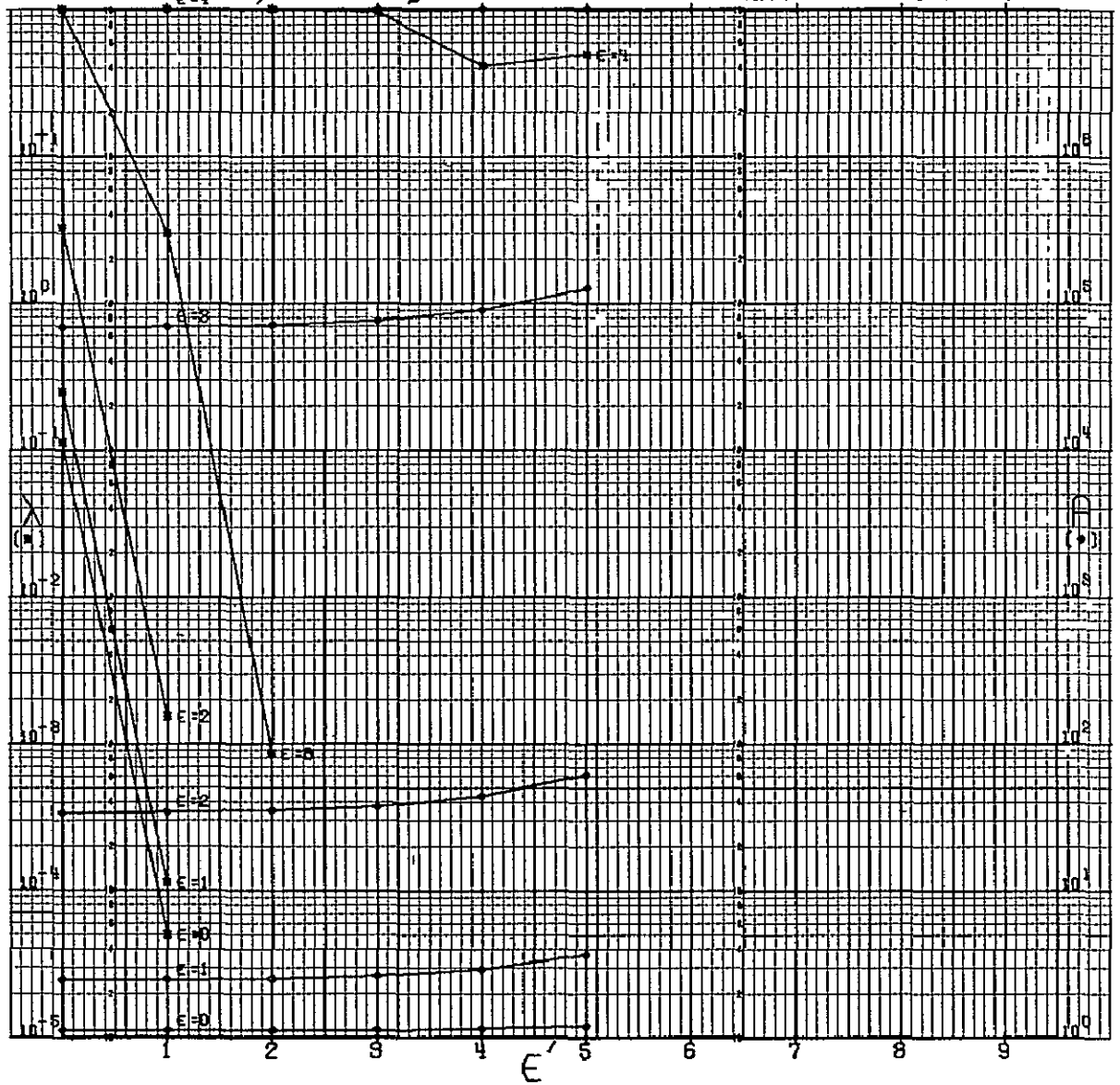
CODE 1101110000
GSFC STANDARD

$\epsilon = 4$

$\eta = +0001$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 10

CODE 1101110000

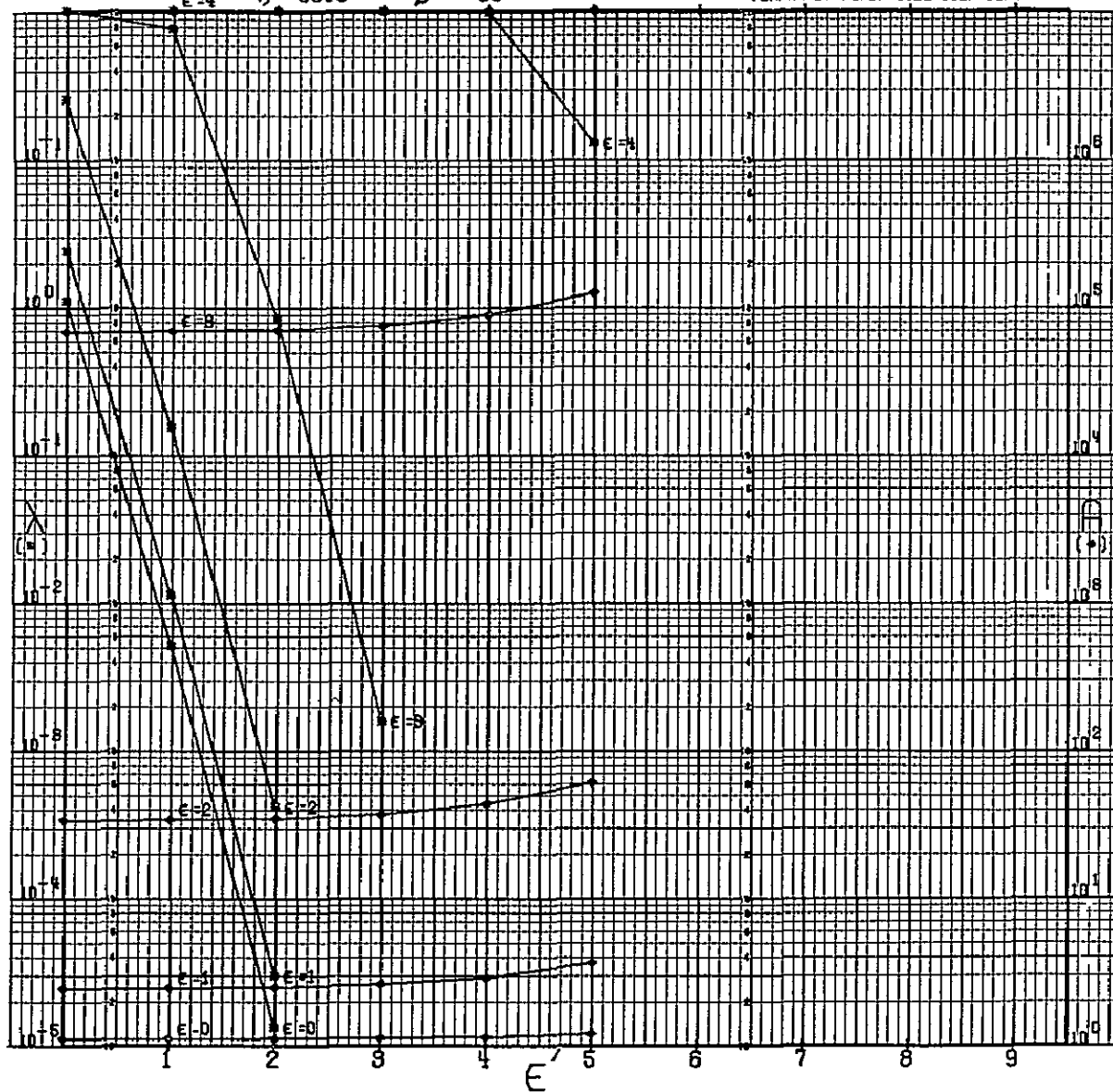
GSFC STANDARD

$\epsilon = 4$

$\eta = +0010$

$\beta = 50$

(DRAWN BY ADPB, CODE 542, GSFC)



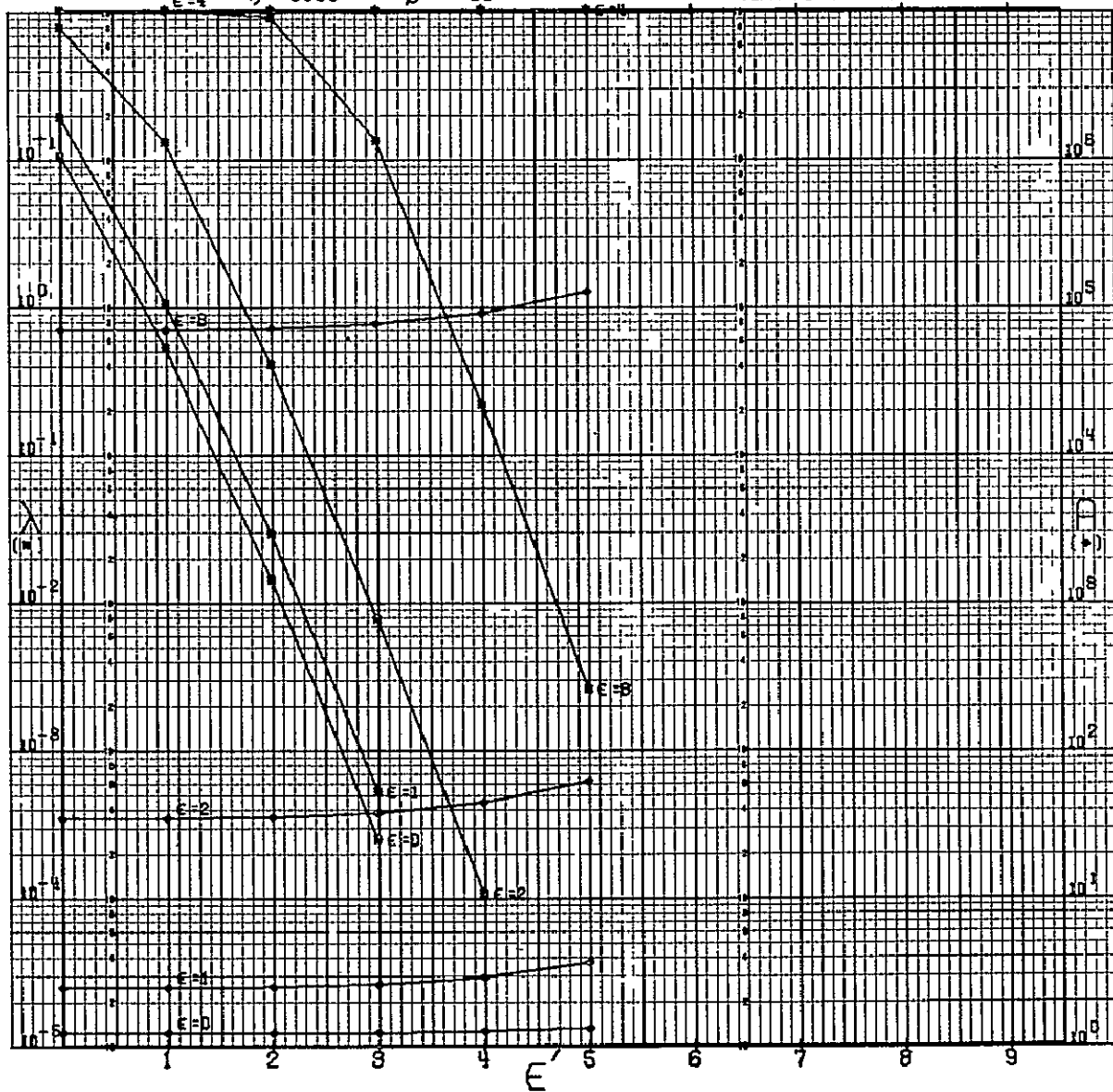
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 50$

(DRAWN BY AOPB, CODE 512, GSFC)



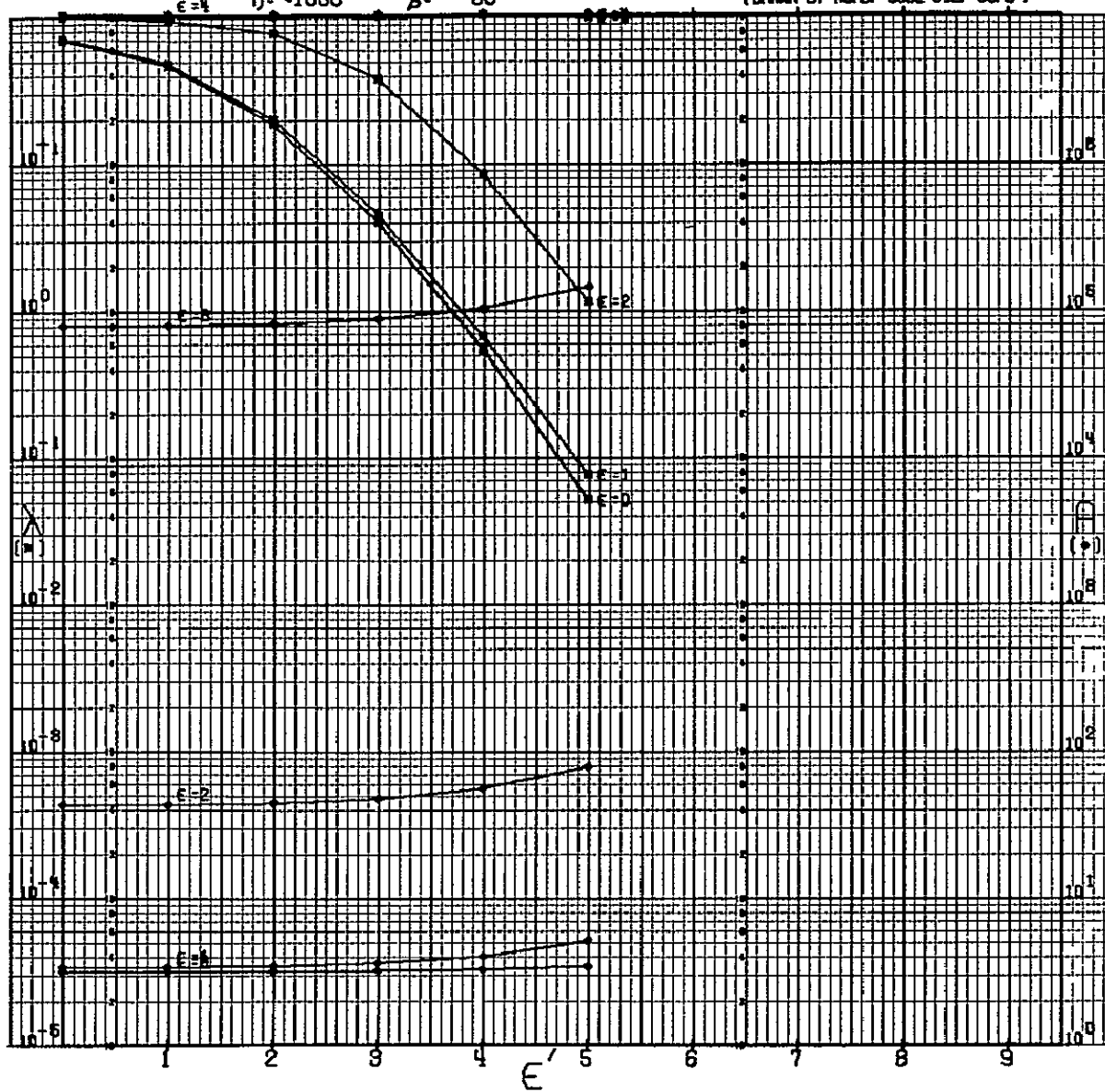
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N=10

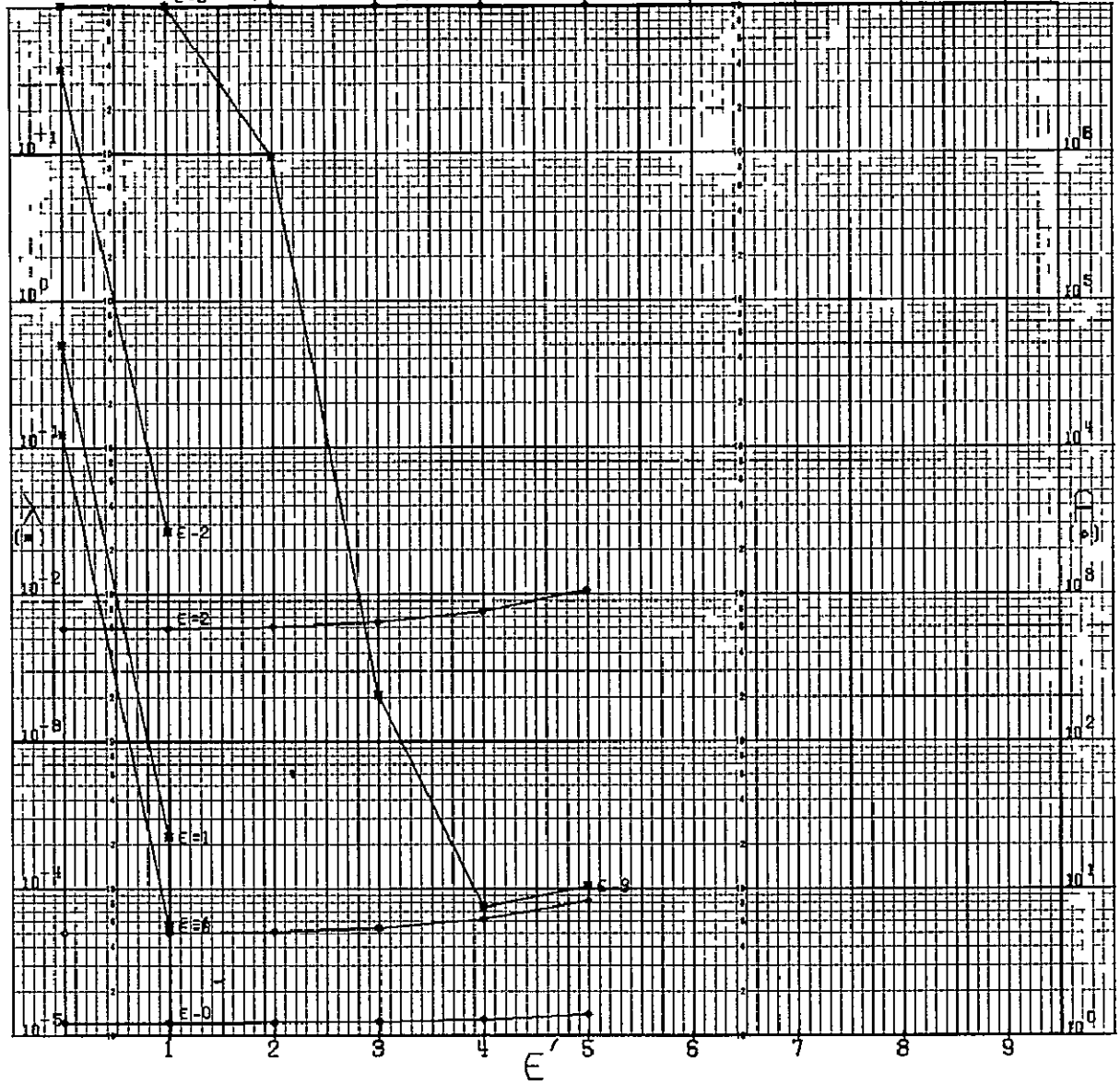
CODE 110111G000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY ROPB CODE 542 GSFC)



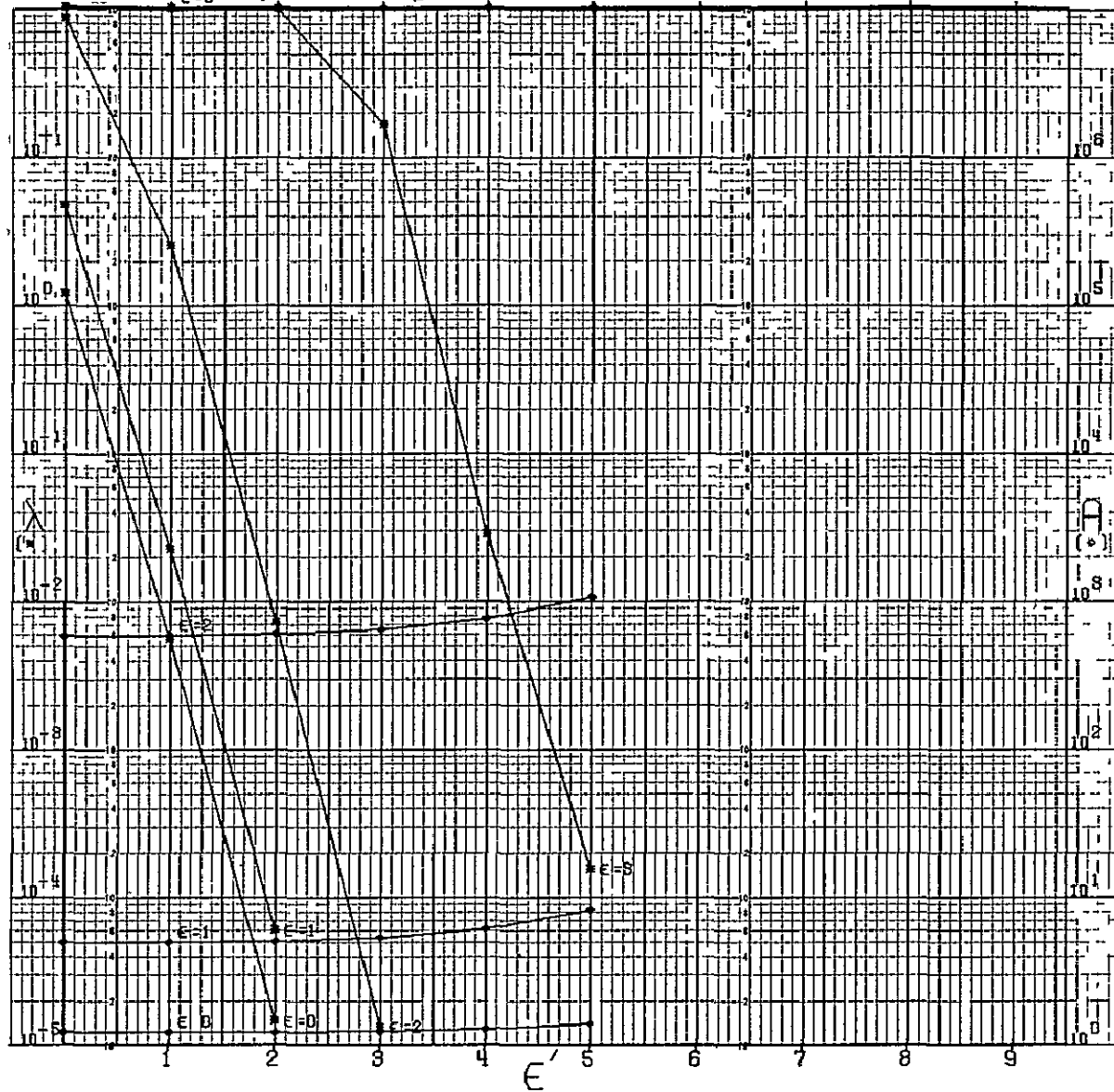
N = 10

CODE 1101110000
GSFC STANDARD

$\epsilon = 8$ $h = .0010$

$\beta = 100$

(DRAWN BY ROPS CODE 542 GSFC)



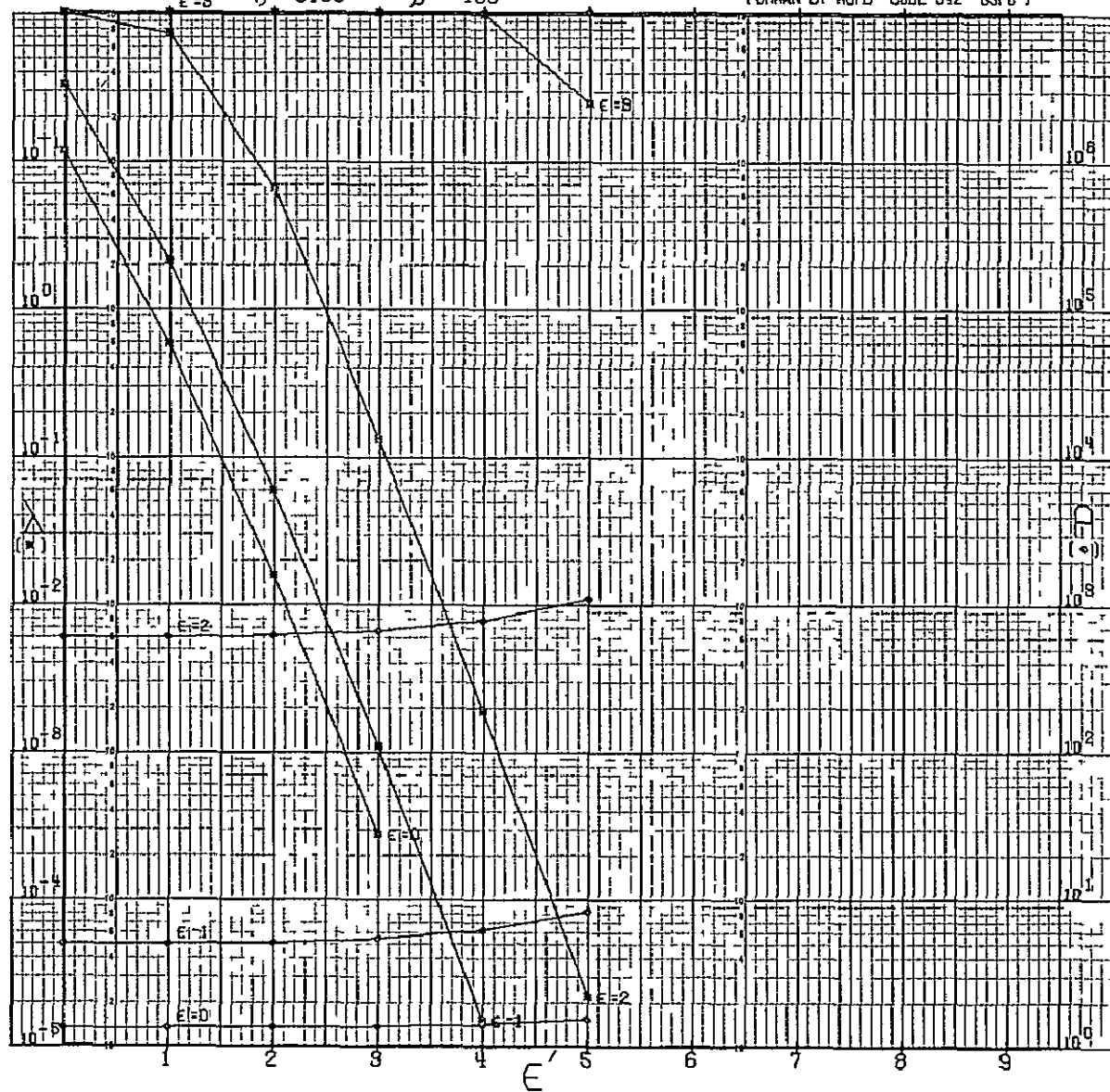
N = 10

CODE 1101110000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.100$

$\beta = 100$

(DRAWN BY ROPB CODE 542 GSFC)



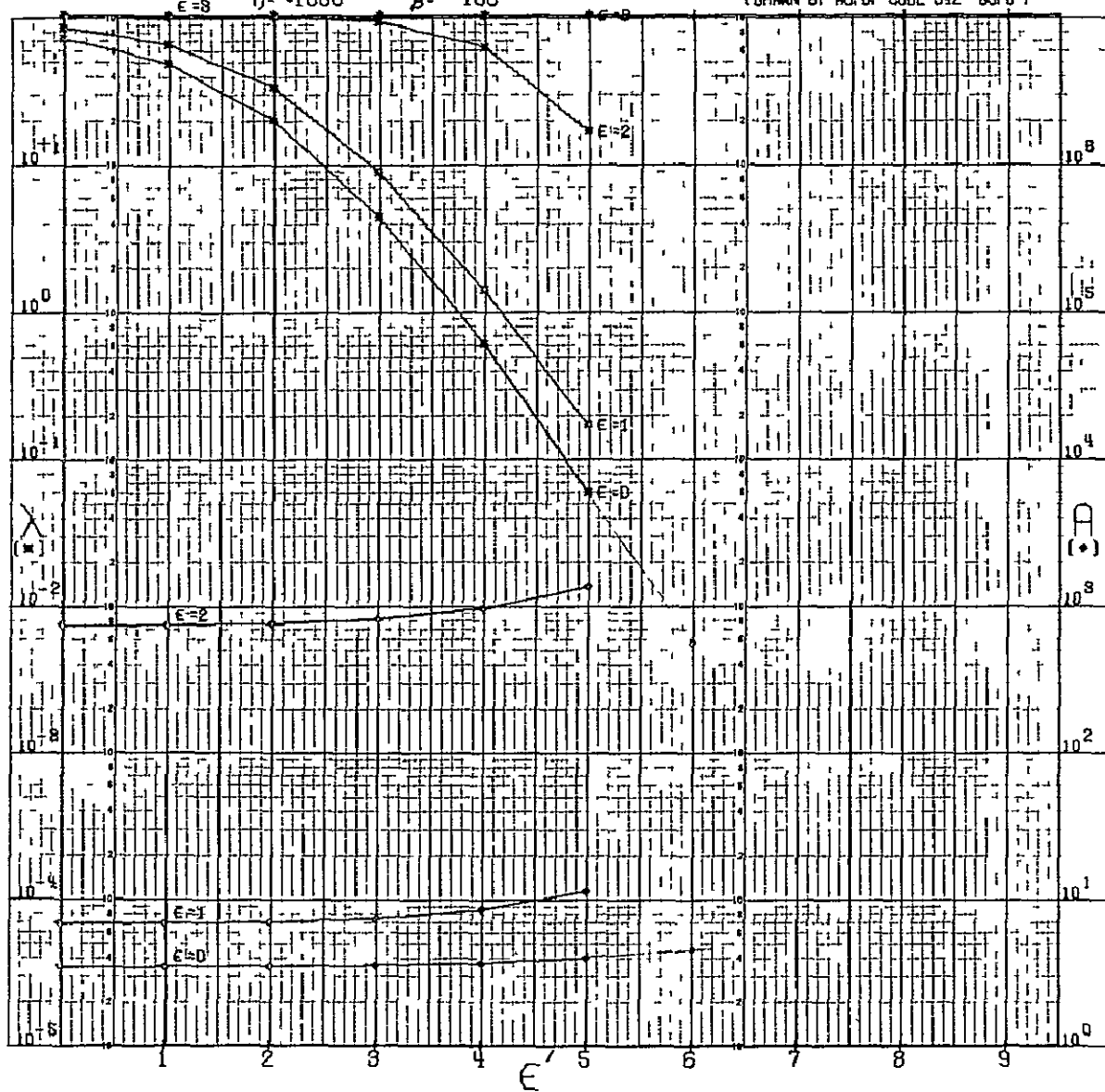
N=10

CODE 1101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ADPB, CODE 592 GSFC)



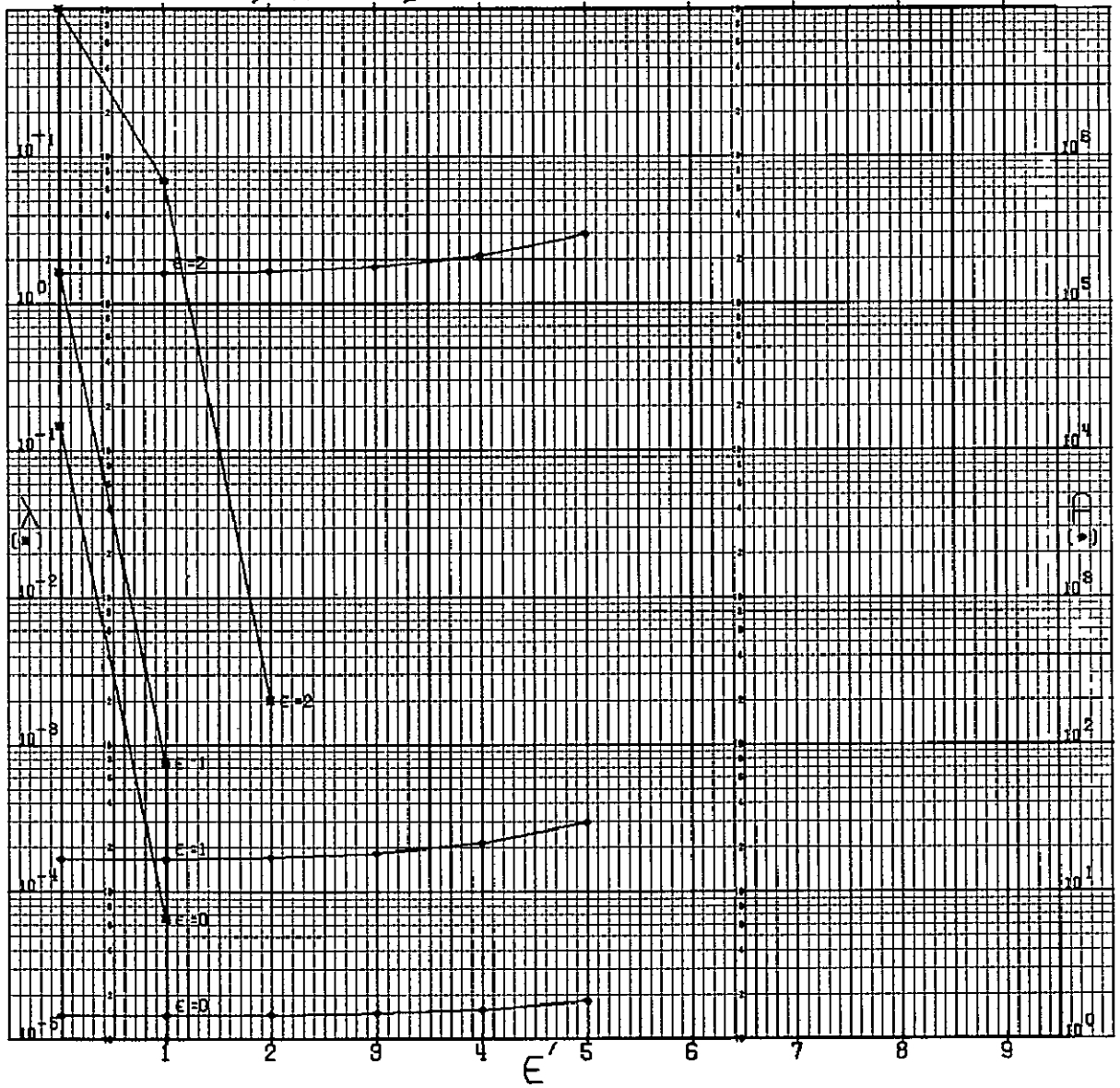
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 200$

(DRAWN BY ACPB, CODE 542, GSFC)



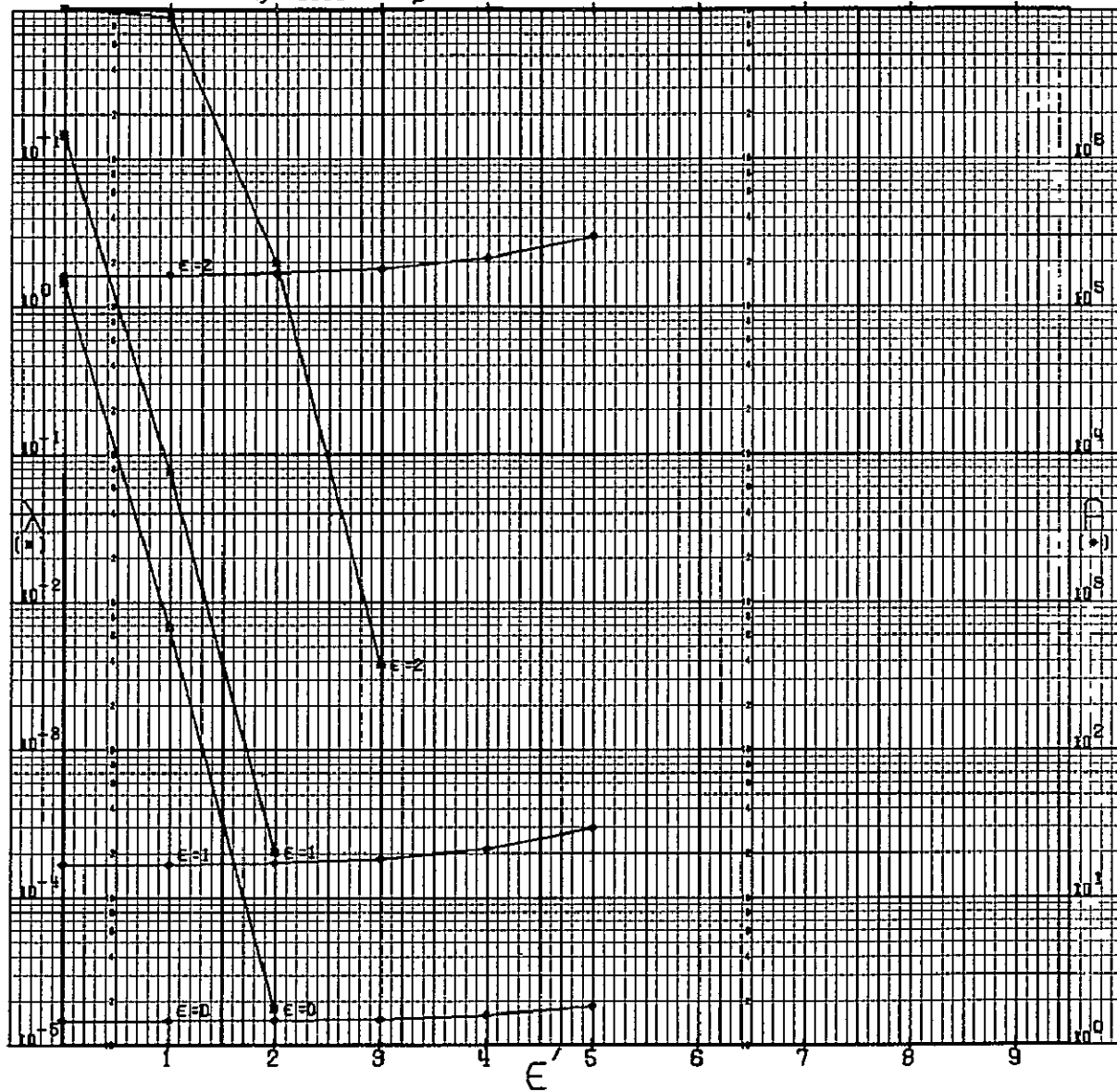
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



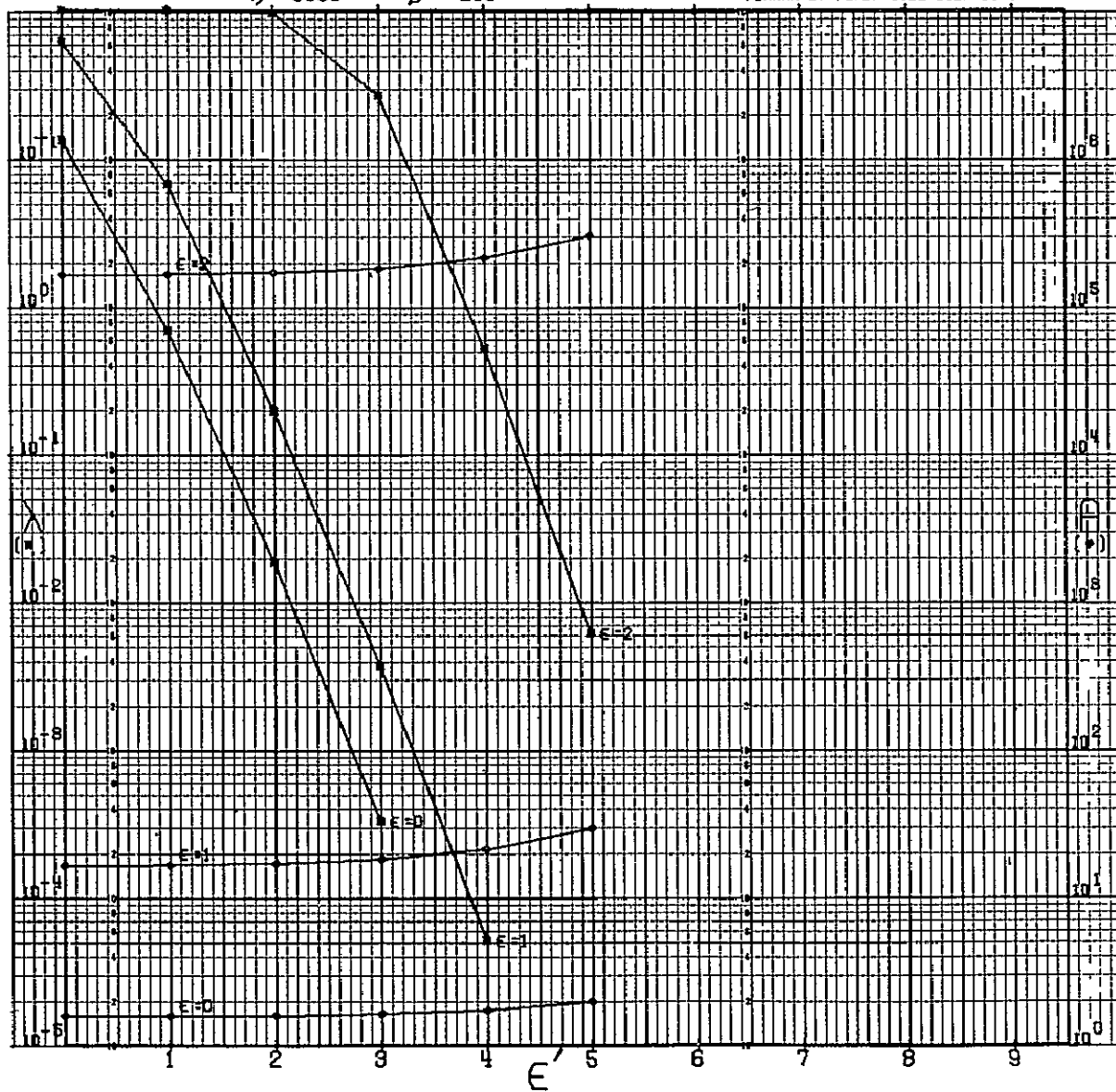
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 0.100$

$\beta = 200$

(DRAWN BY ROFB, CODE 592, GSFC)



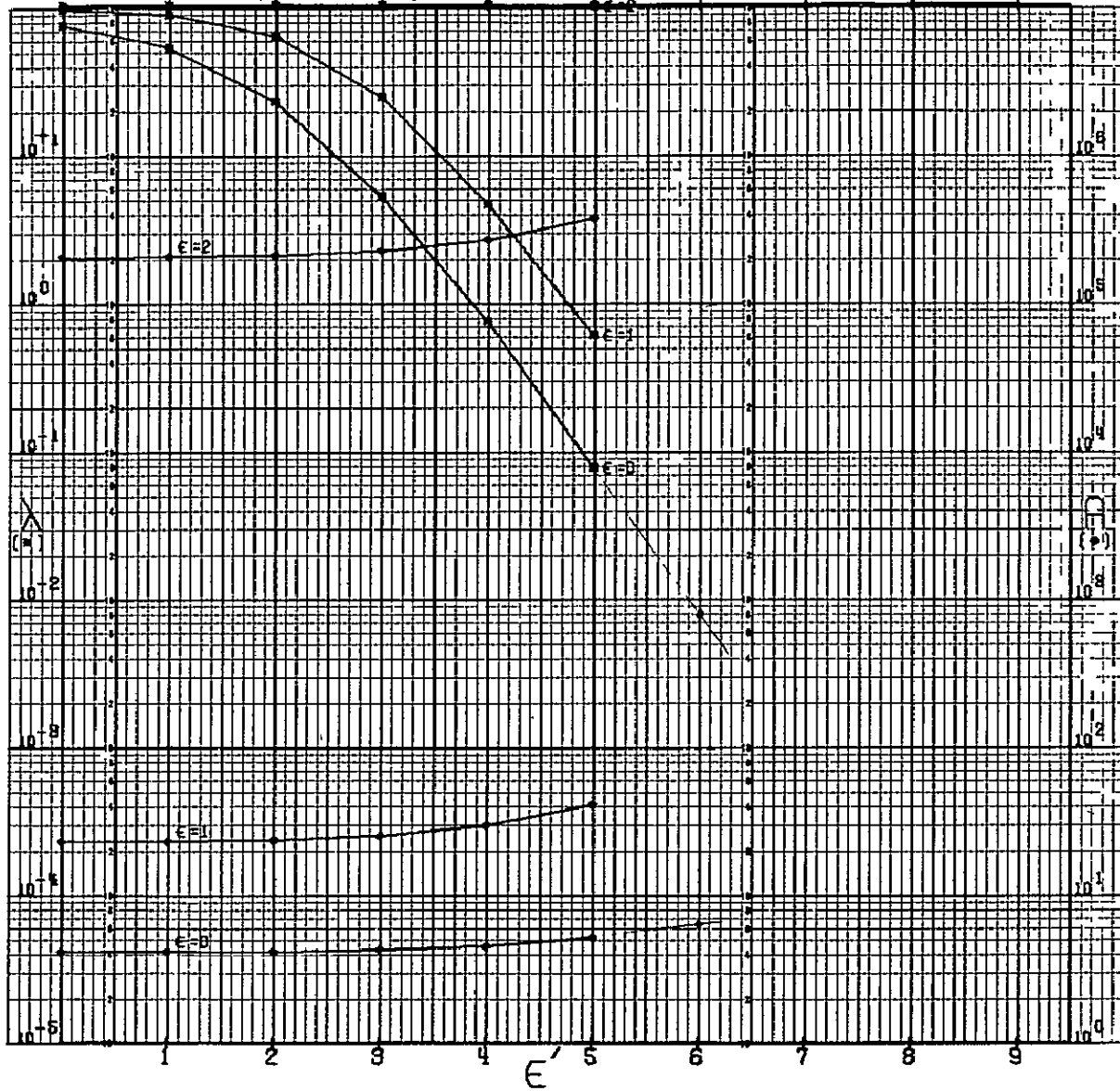
N=10

CODE 1101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROFB, CODE 542, GSFC)

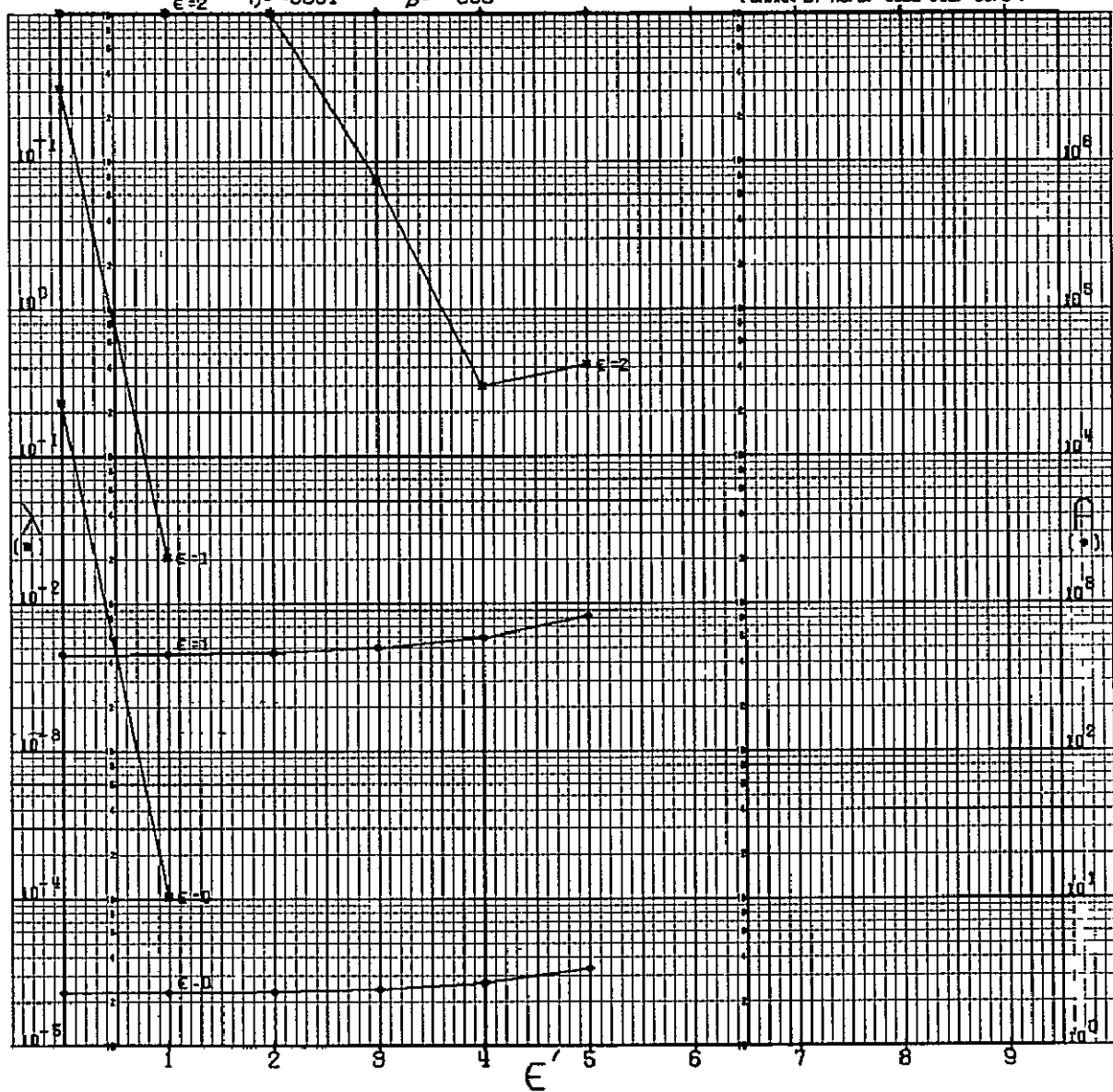


N = 10

CODE 1101110000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0001$ $\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 10

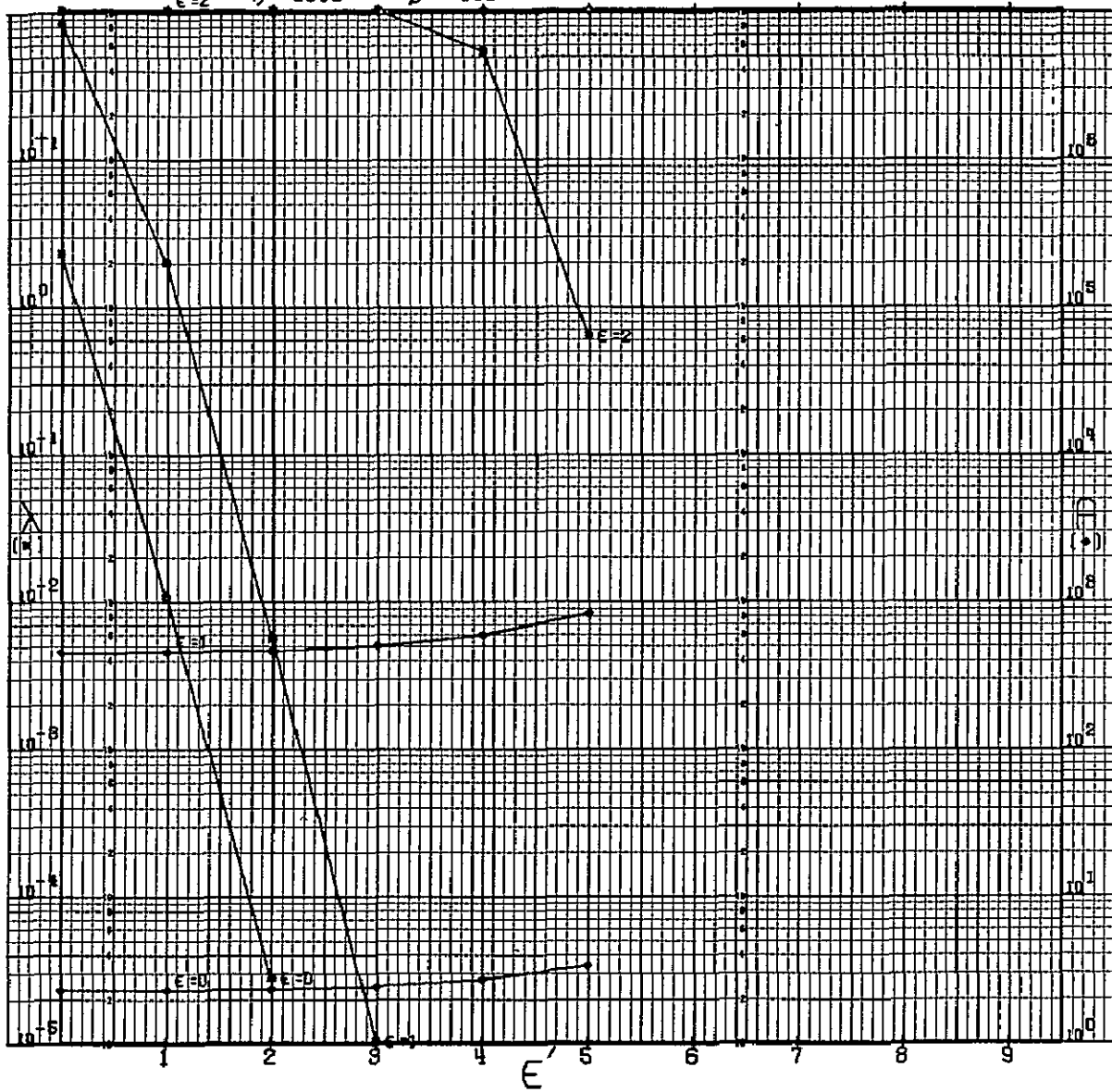
CSOE 1101110000
GSFC STANDARD

$\epsilon = 2$

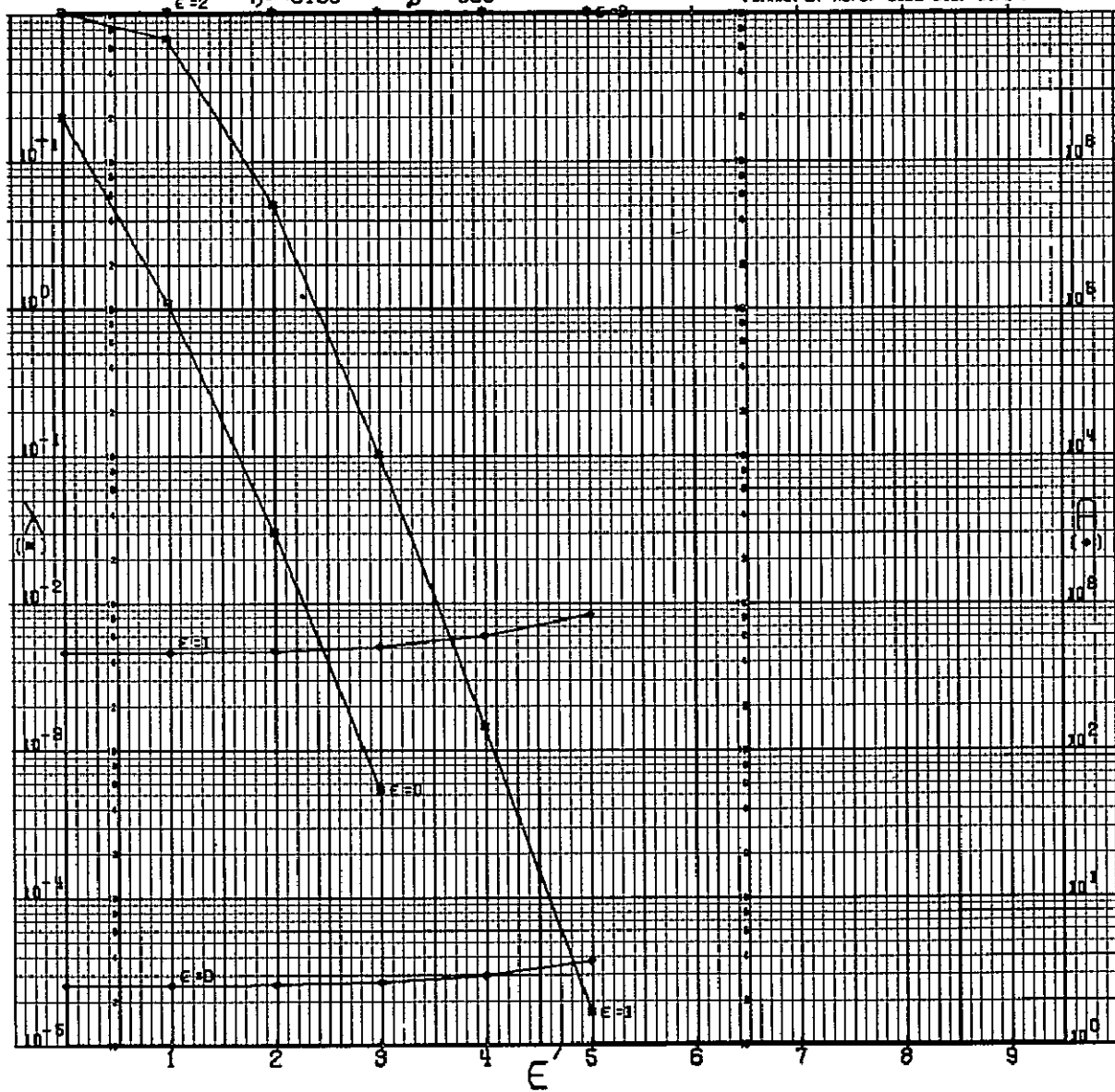
$b = +0010$

$\beta = 500$

(DRAWN BY ADPB, CODE 542, GSFC)



N = 10 CODE 1101110000 $\eta = 0.100$ $\beta = 500$ (DRAWN BY AOPB, CODE 542, GSFC)



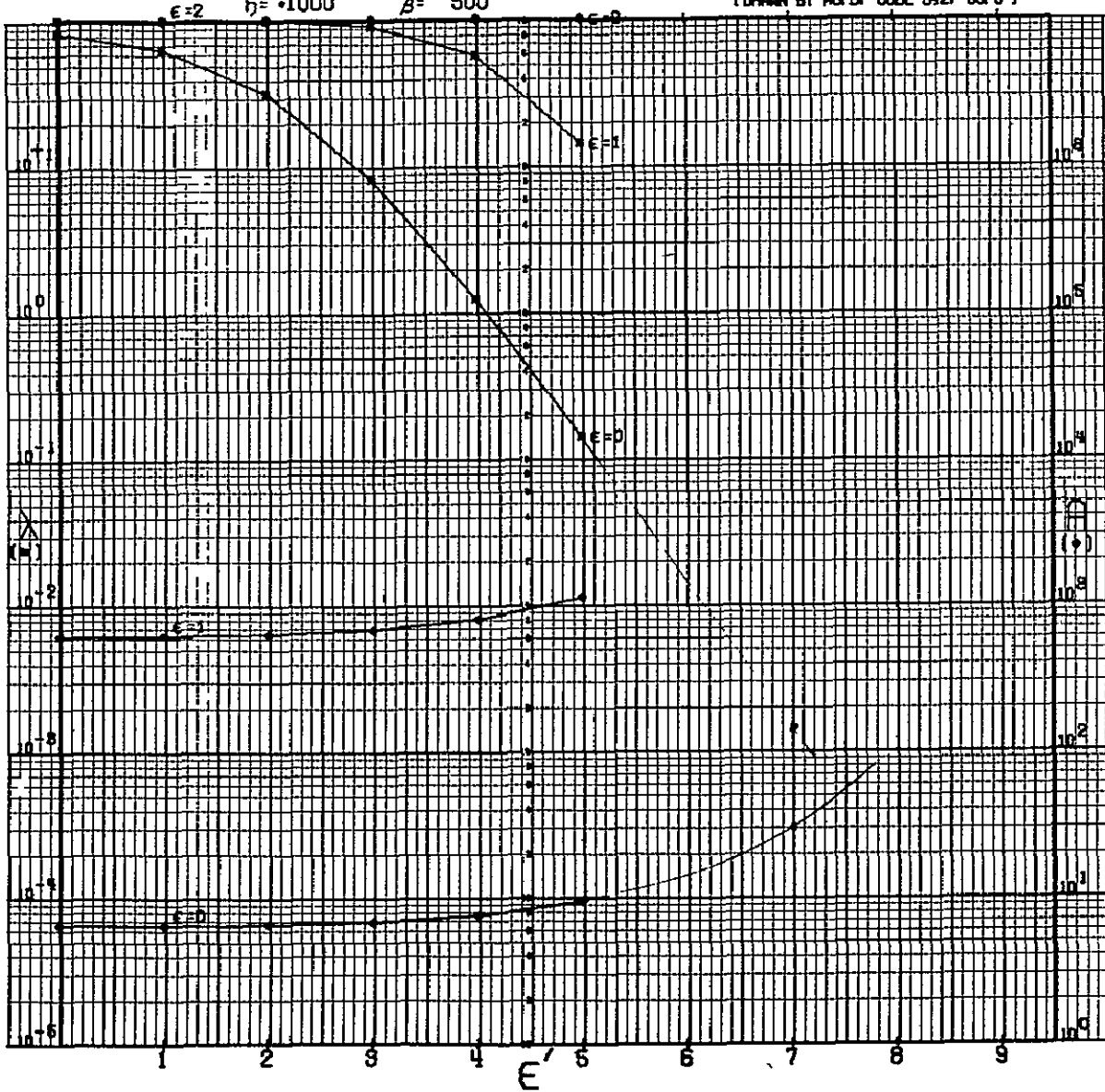
N = 10

CODE 1101130000
GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY AOPS. CODE 542. GSFC)



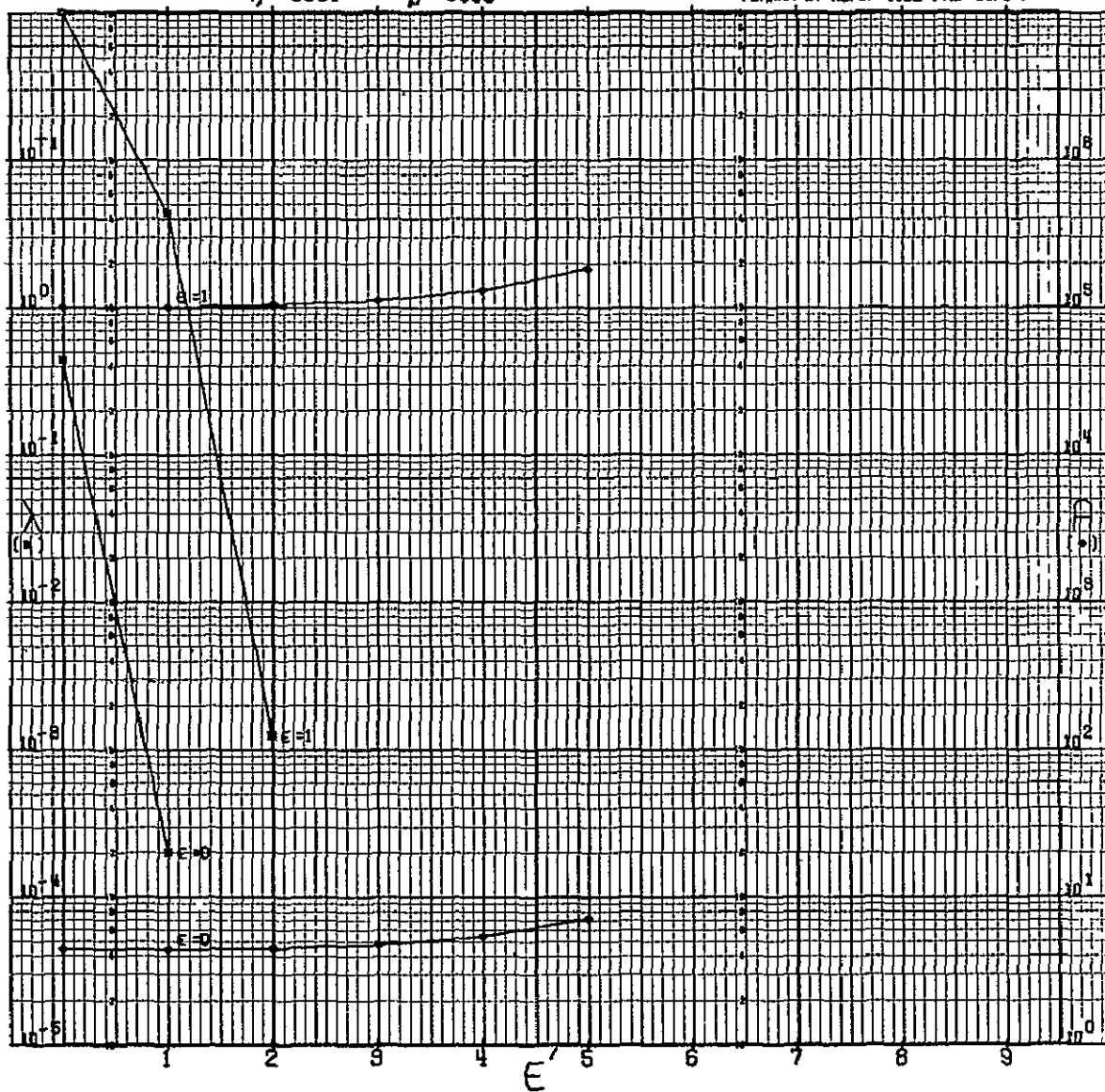
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



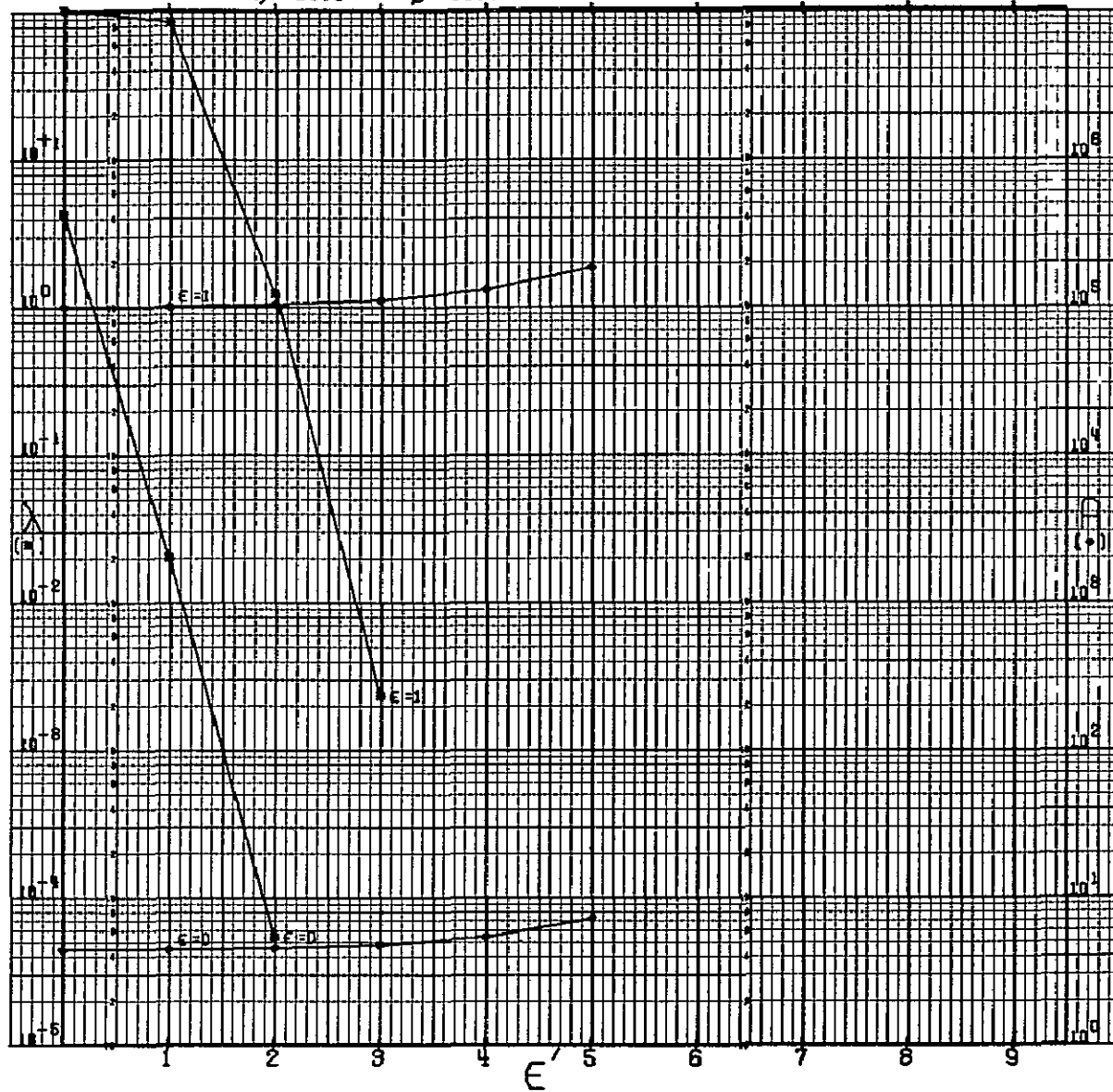
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = +0010$

$\beta = 1000$

(DRAWN BY ROPE. CODE 542. GSFC)



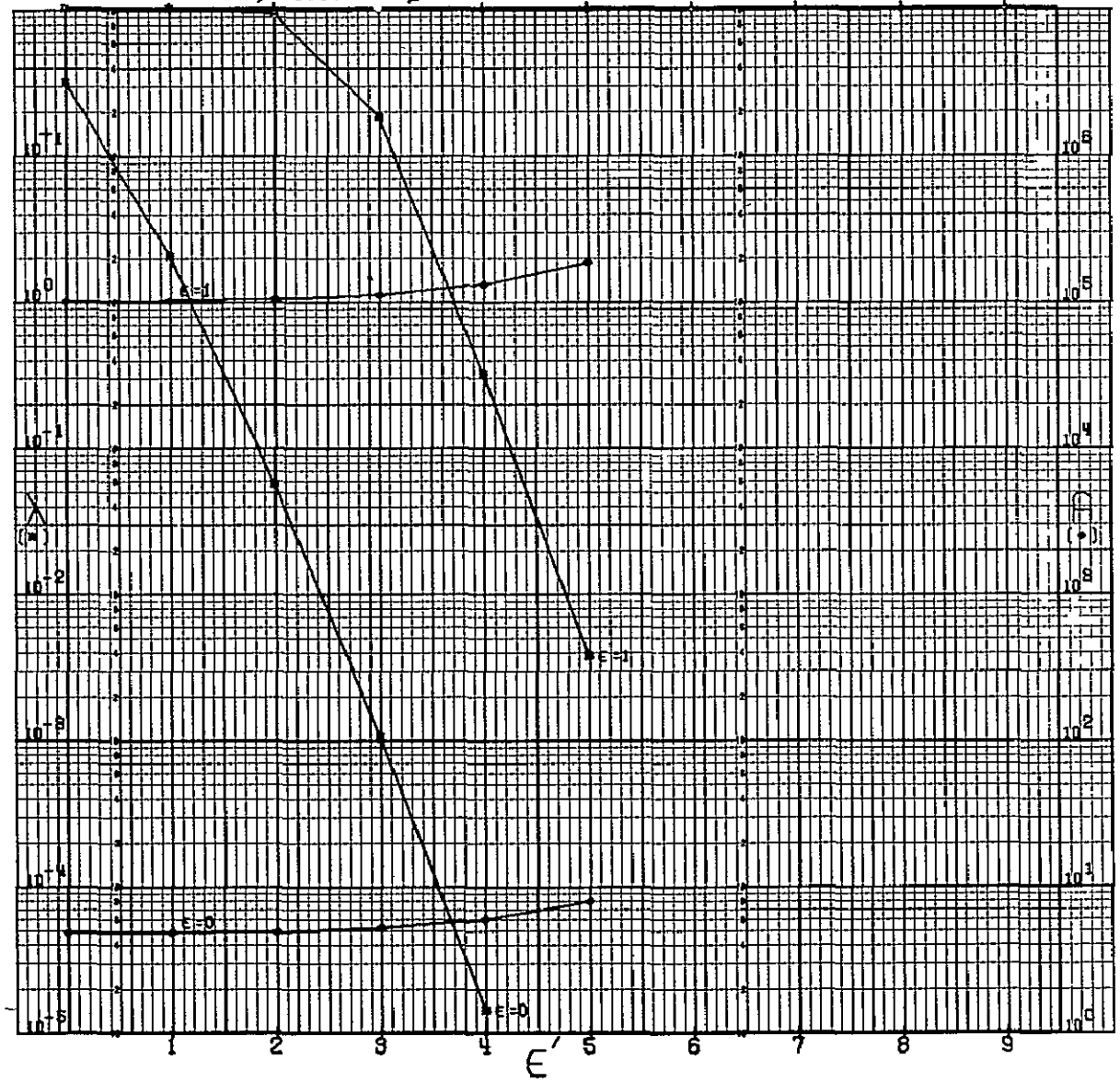
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



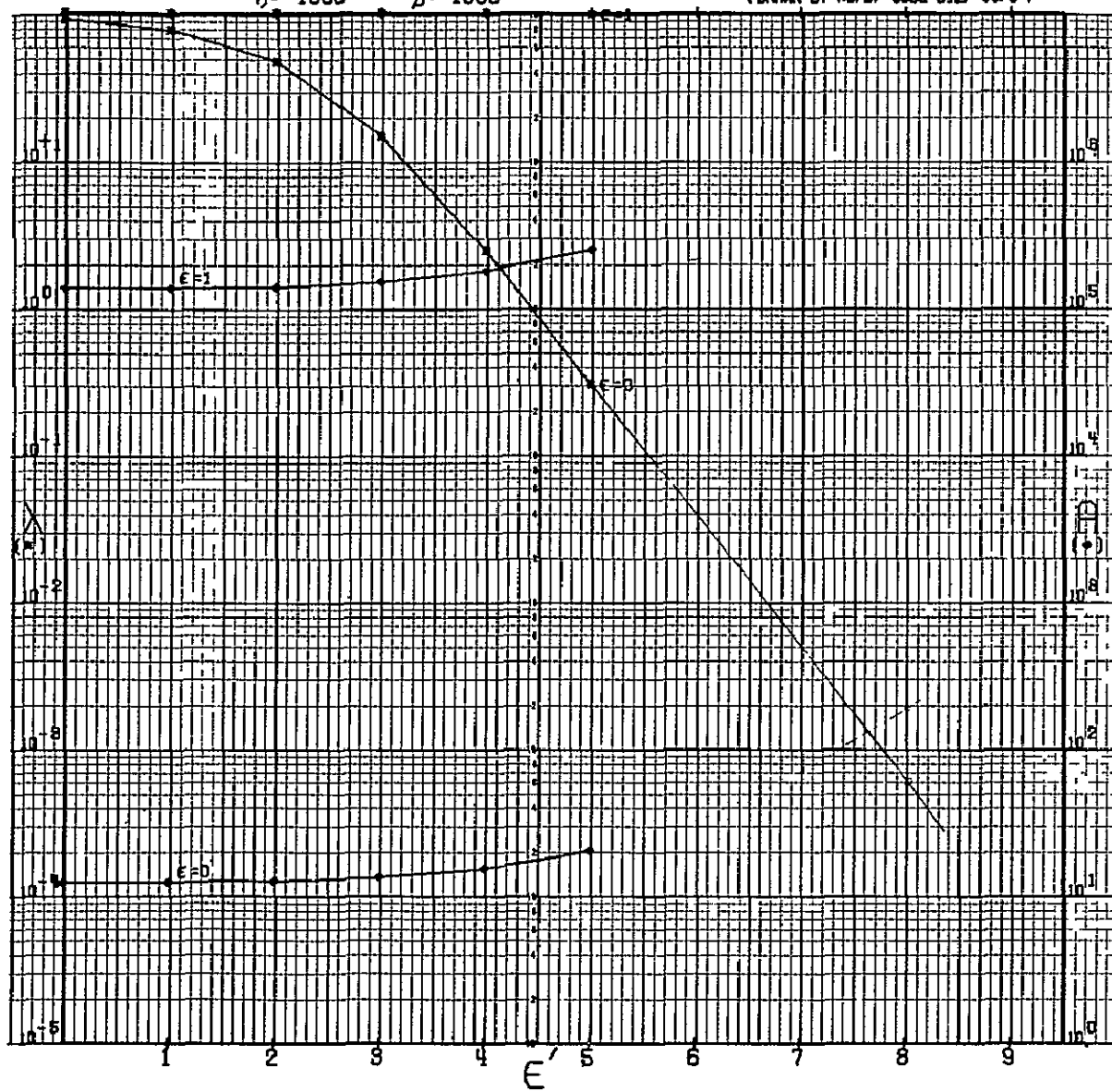
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ACPB, CODE 542, GSFC)



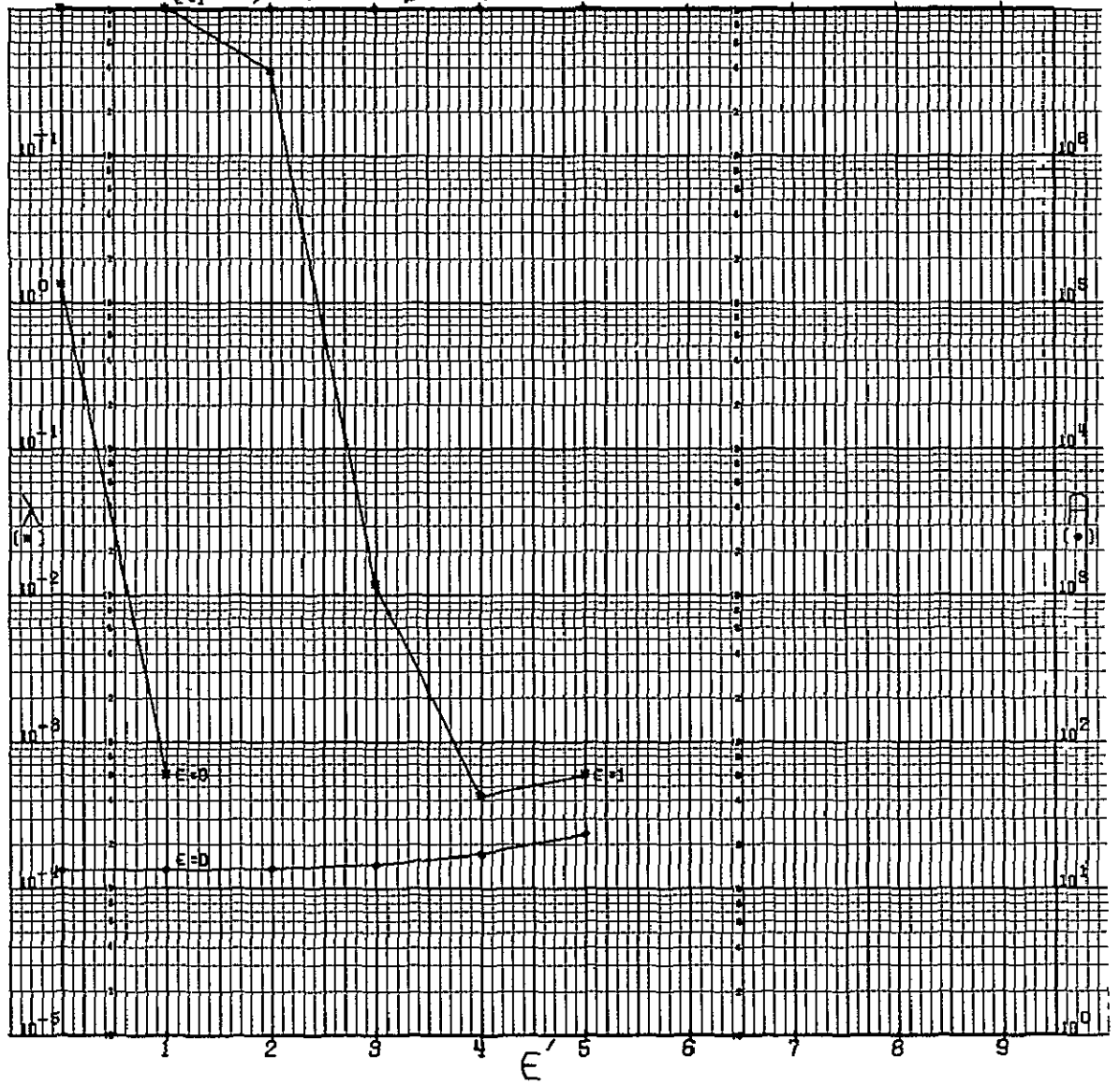
N=10

CODE 1101110000
GSFC STANDARD

$\epsilon = 1$ $\eta = .0001$

$\beta = 2000$

(DRAWN BY ADPB, CODE 542, GSFC 1)



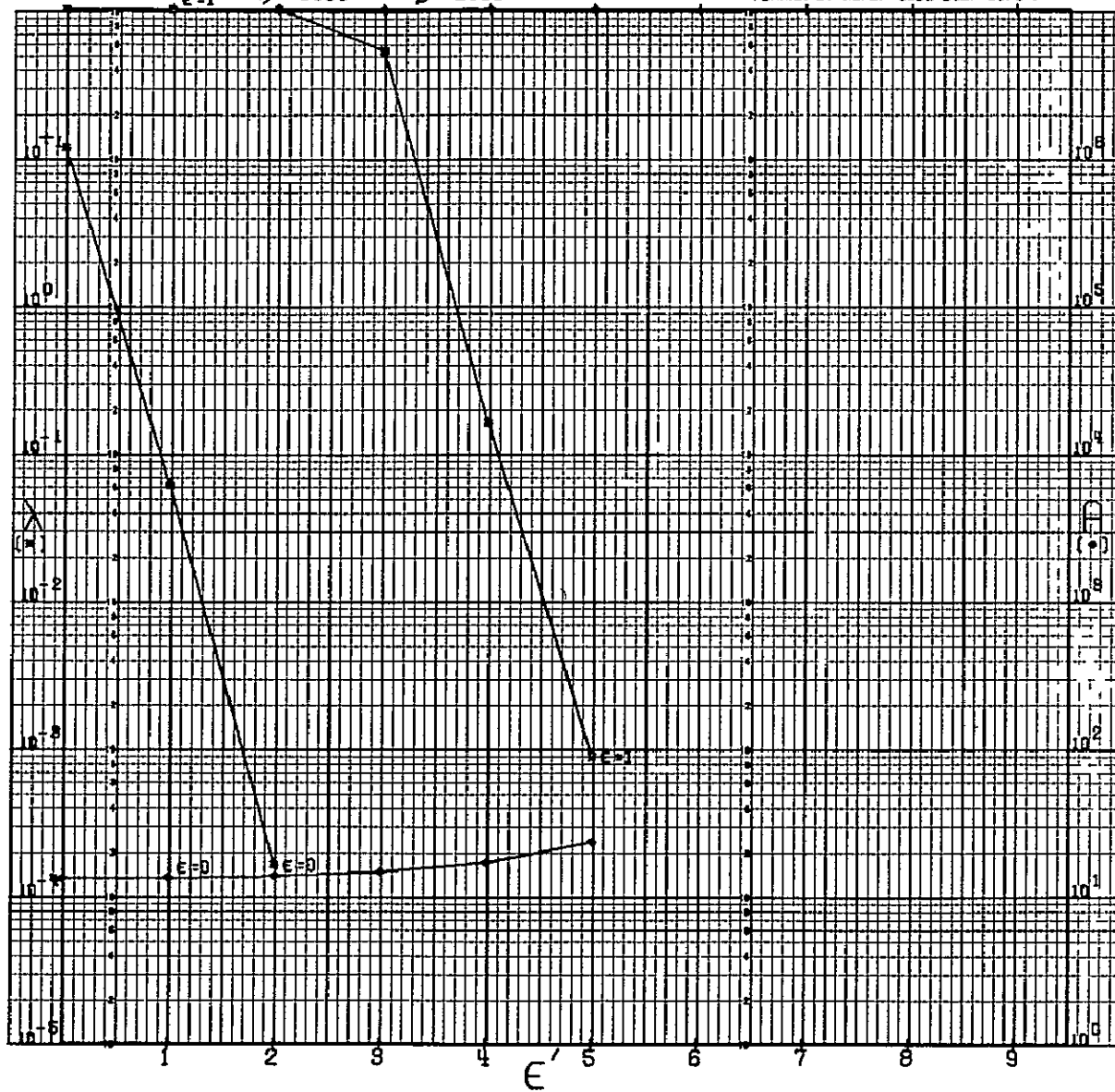
N = 10

CODE 110110000
GSFC STANDARD

$\epsilon = 1$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 592, GSFC)



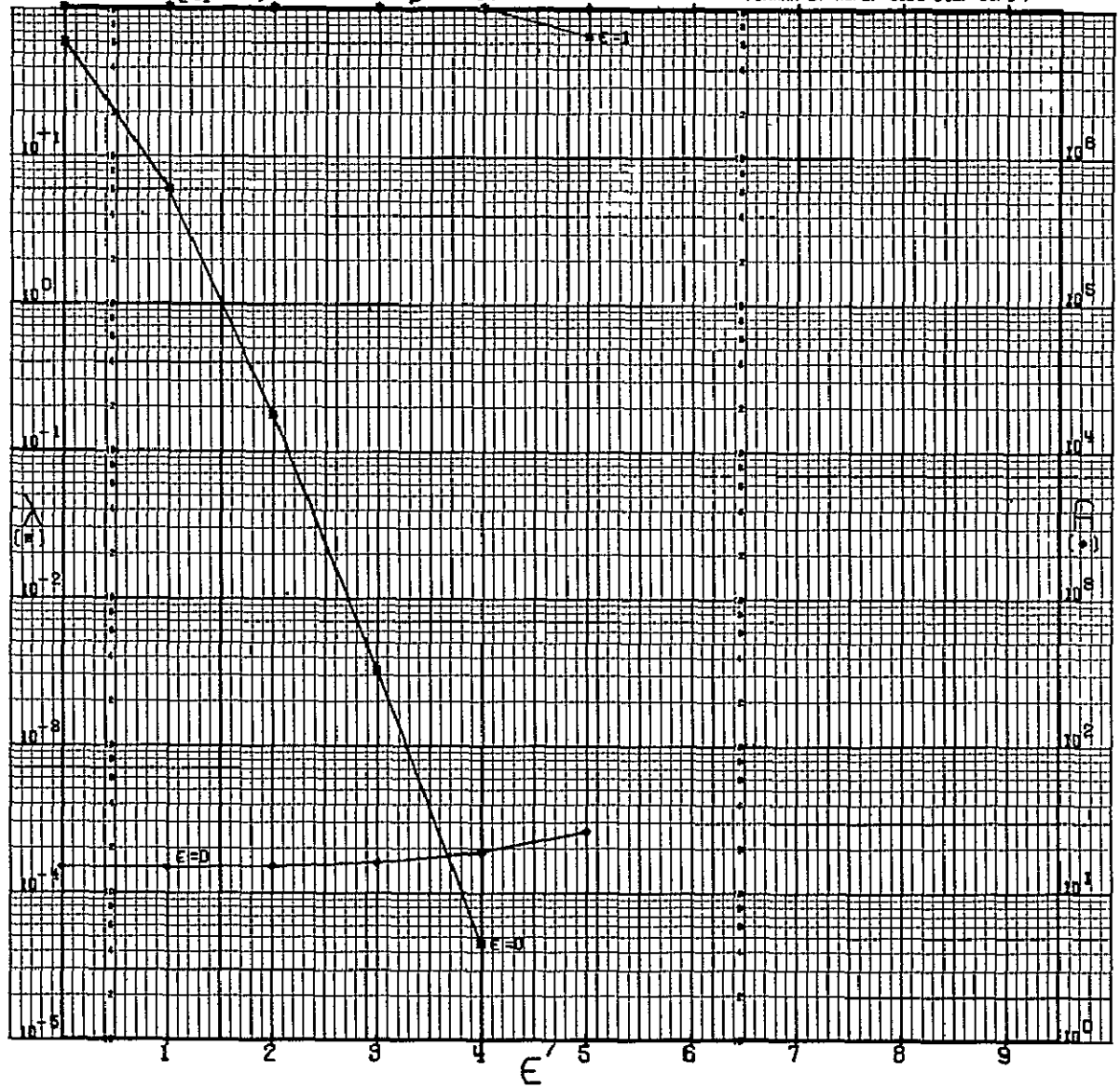
$N=10$

CODE 1101110000
GSFC STANDARD

$\epsilon=1$ $\eta=+0100$

$\beta=2000$

(DRAWN BY ROPB, CODE 542, GSFC)



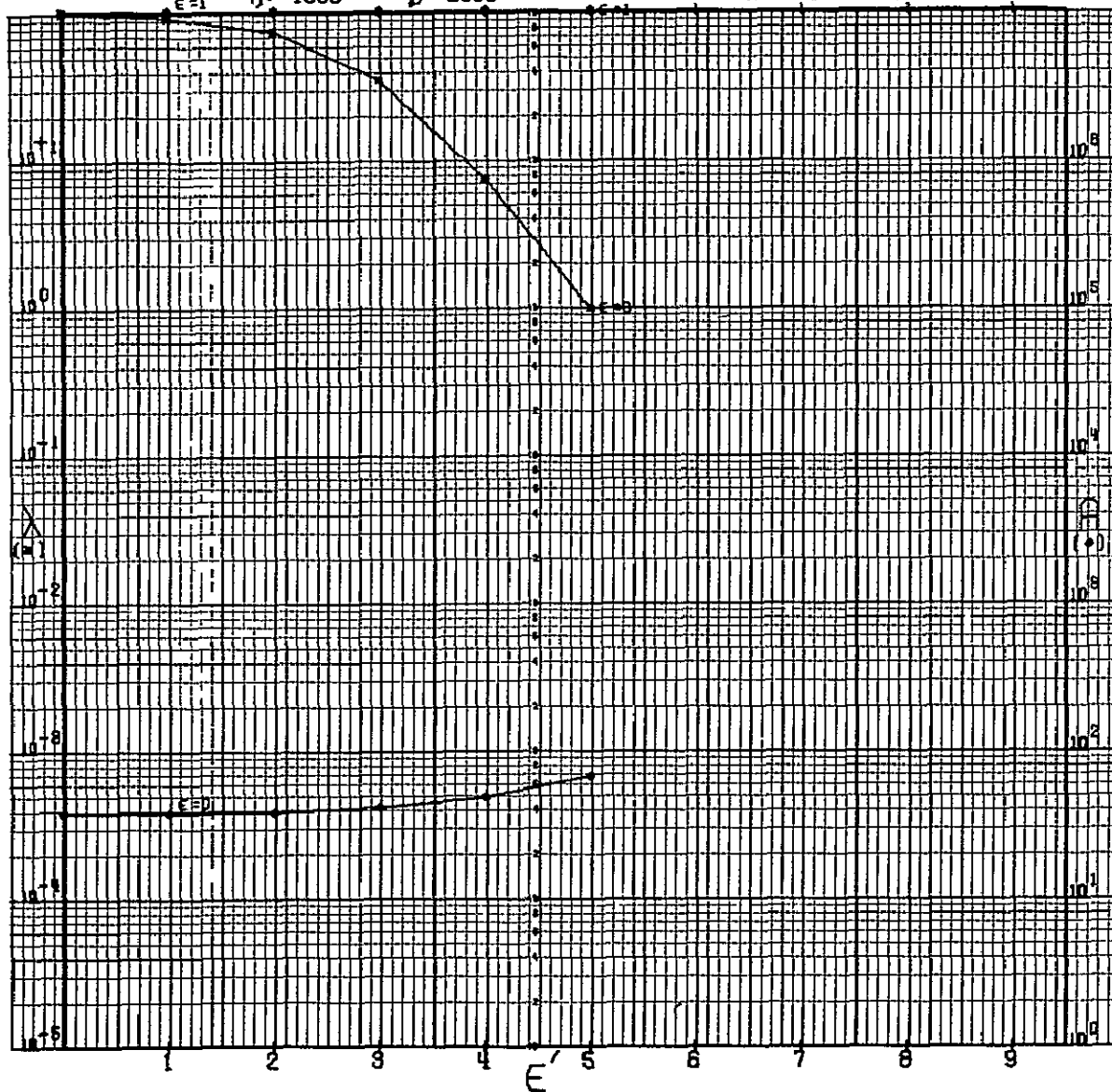
N = 10

CODE 1101110000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY AOPB, CODE 542, GSFC)



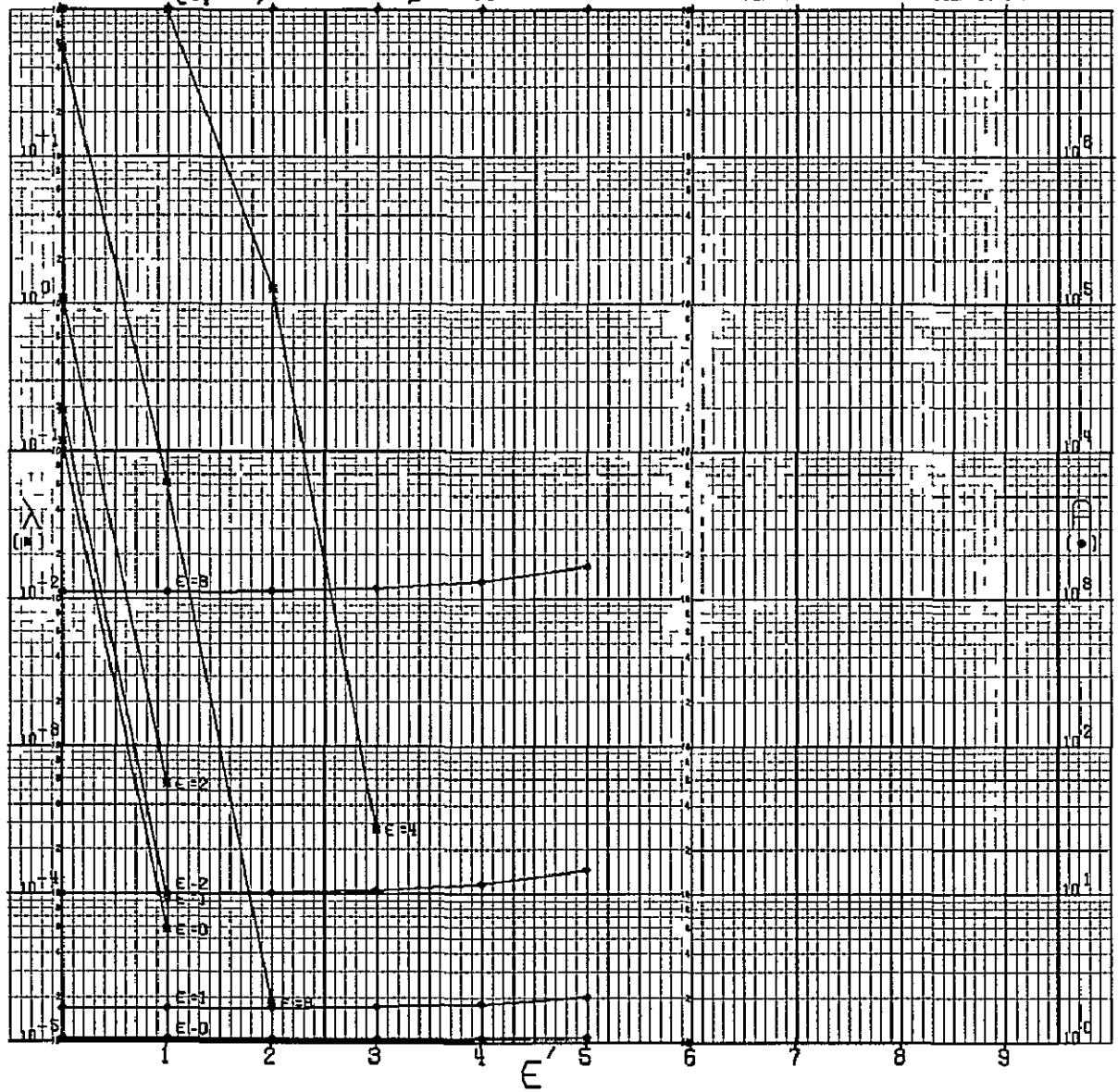
N = 11

CODE 10110111000
GSFC STANDARD

$\epsilon = 4$ $\eta = .0001$

$\beta = 50$

(DRAWN BY RSPB, CODE 542, GSFC)



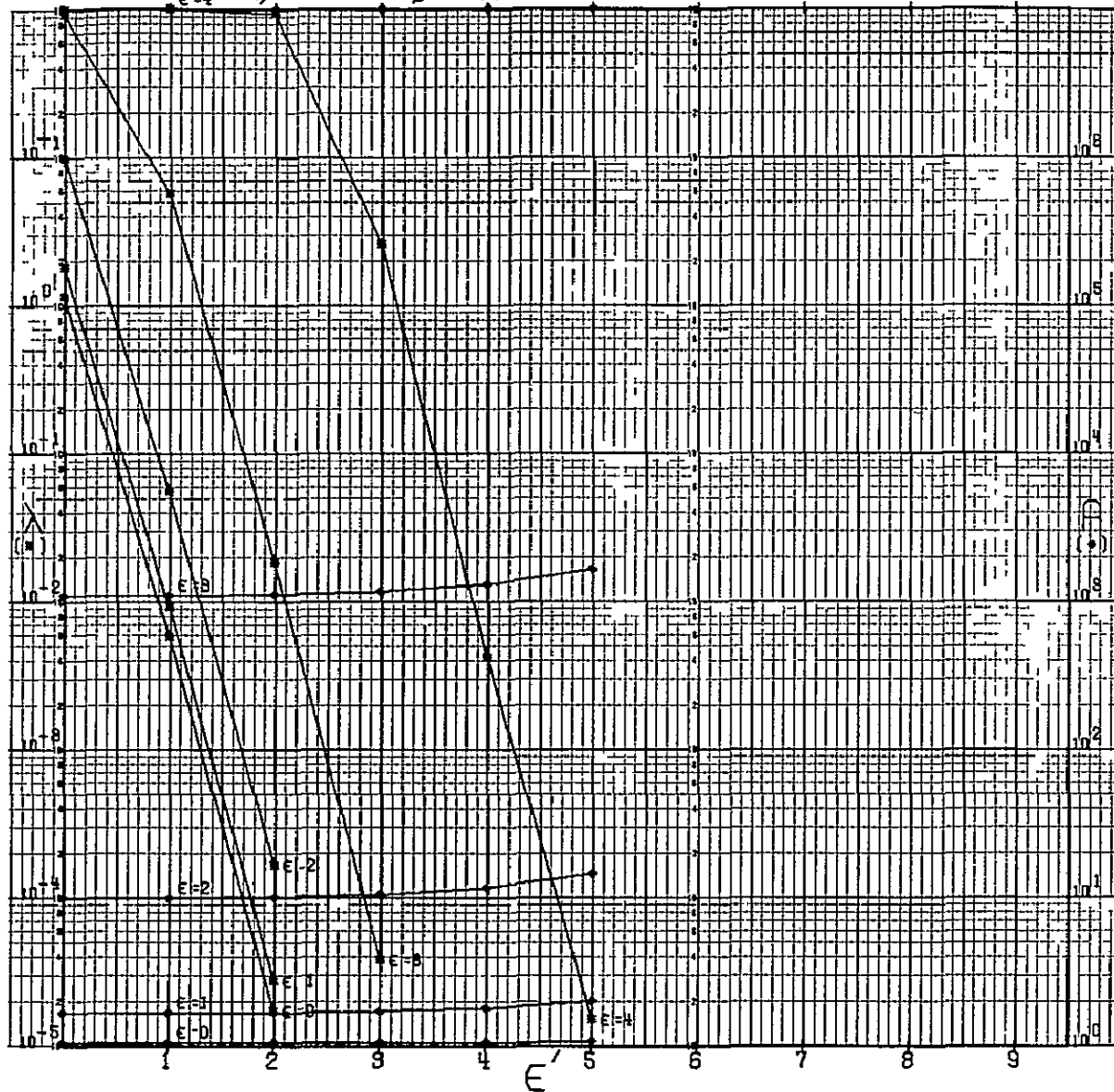
N=11

CODE 10110111000
GSFC STANDARD

$\eta = +0010$

$\beta = 50$

(DRAWN BY ACPB, CODE 542, GSFC)



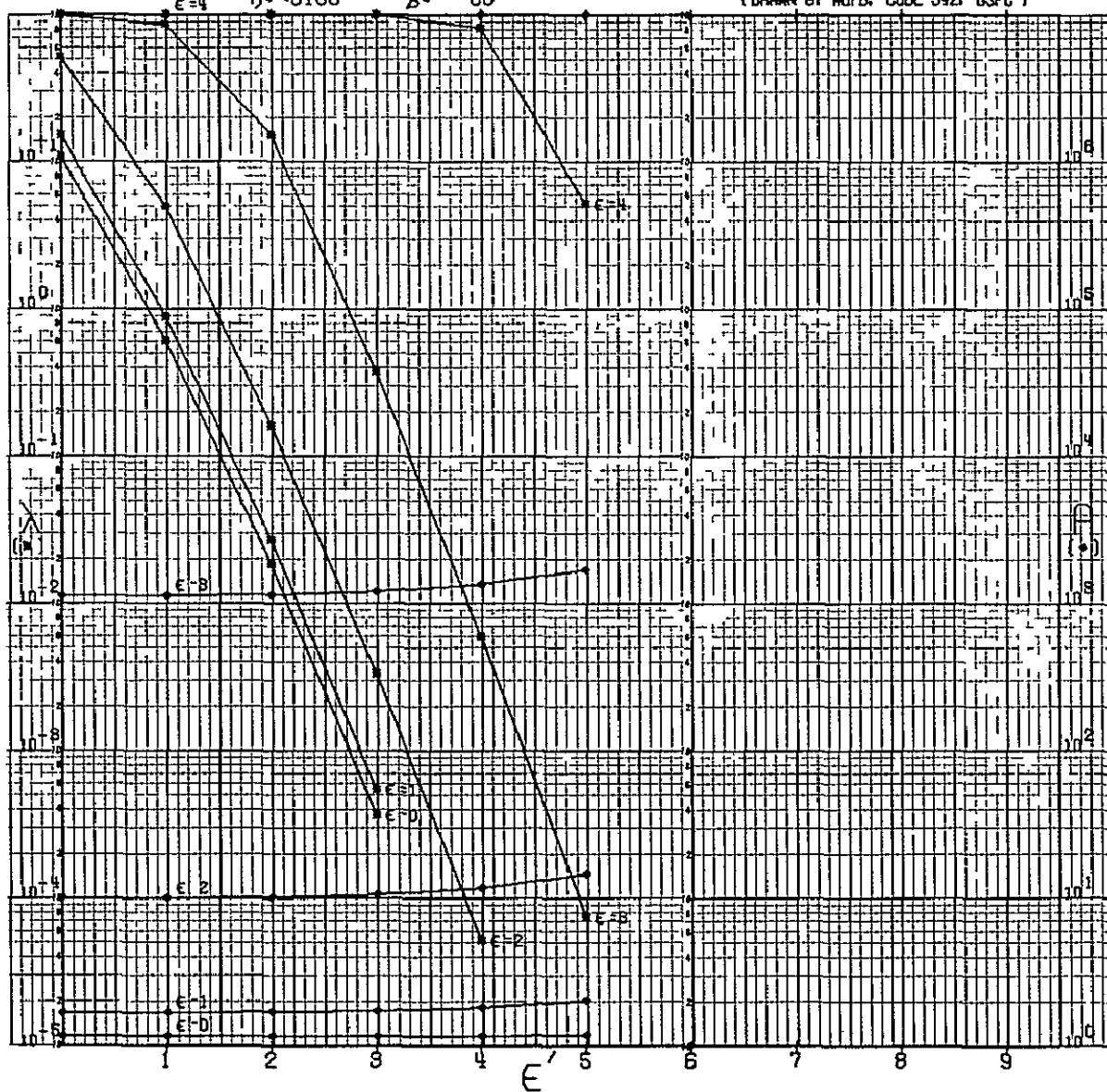
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 50$

(DRAWN BY ADPB, CODE 542, GSFC)

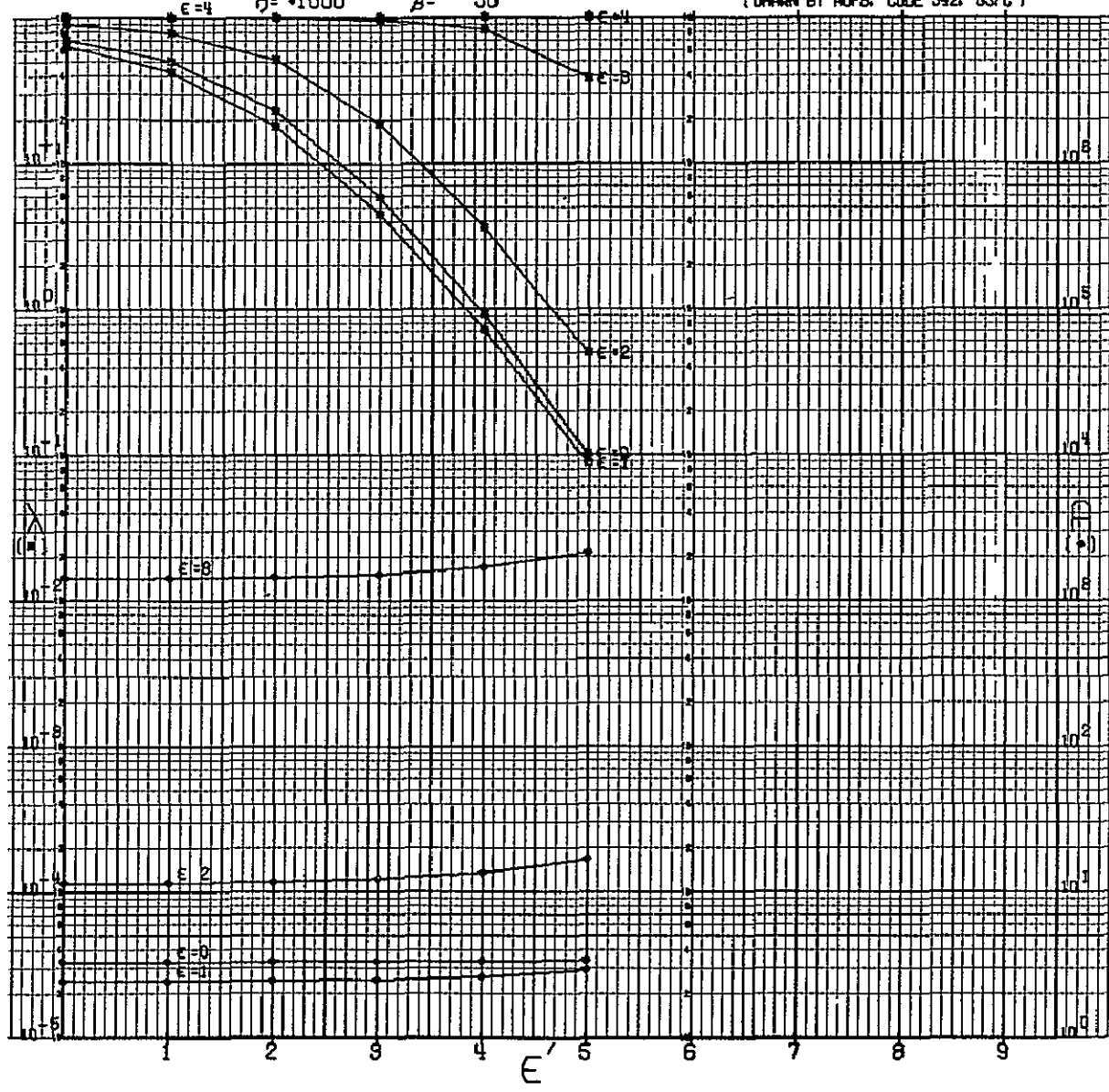


N 11

CODE 10110111000
GSFC STANDARD

$\eta = +1000$ $\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



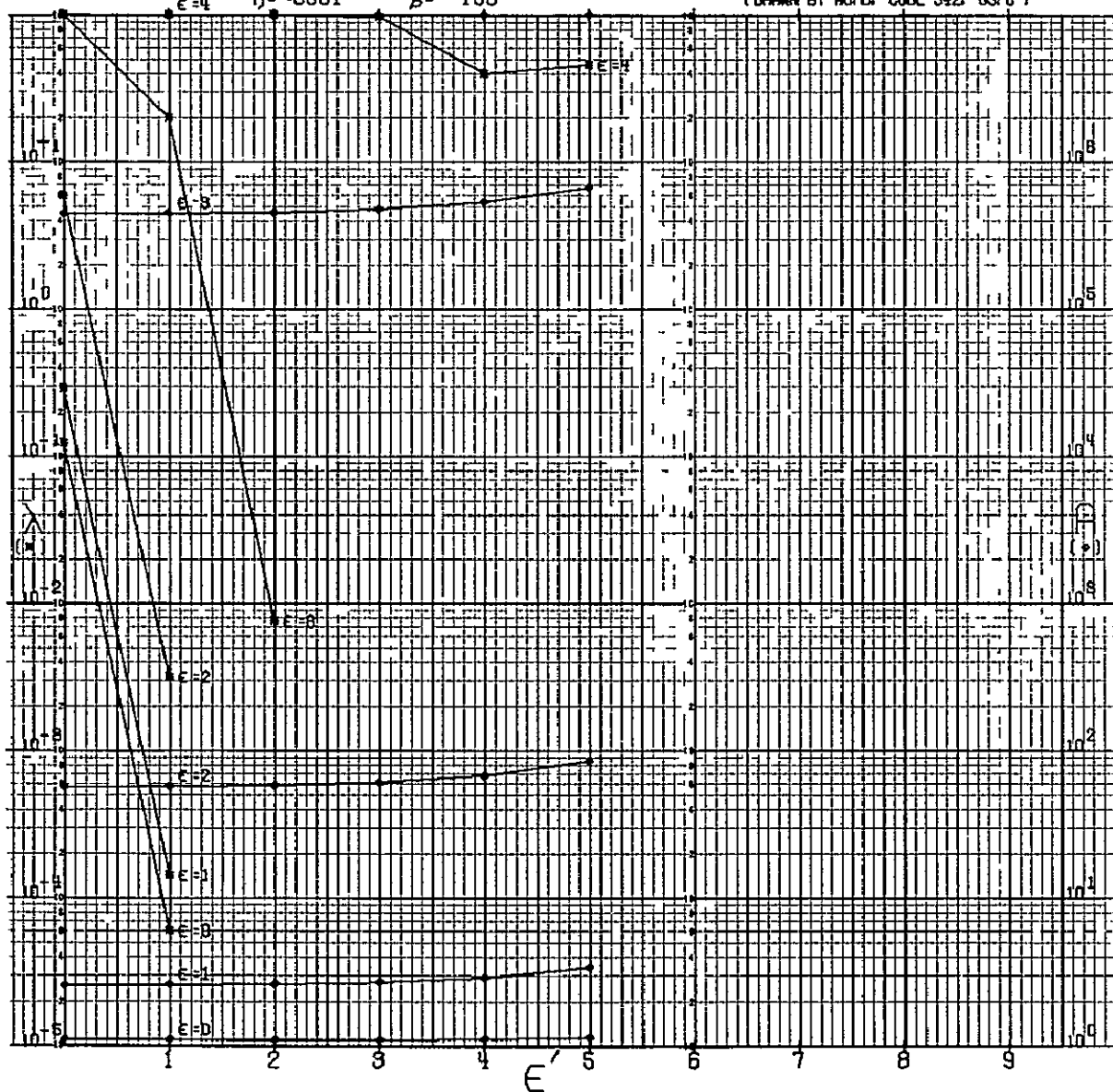
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



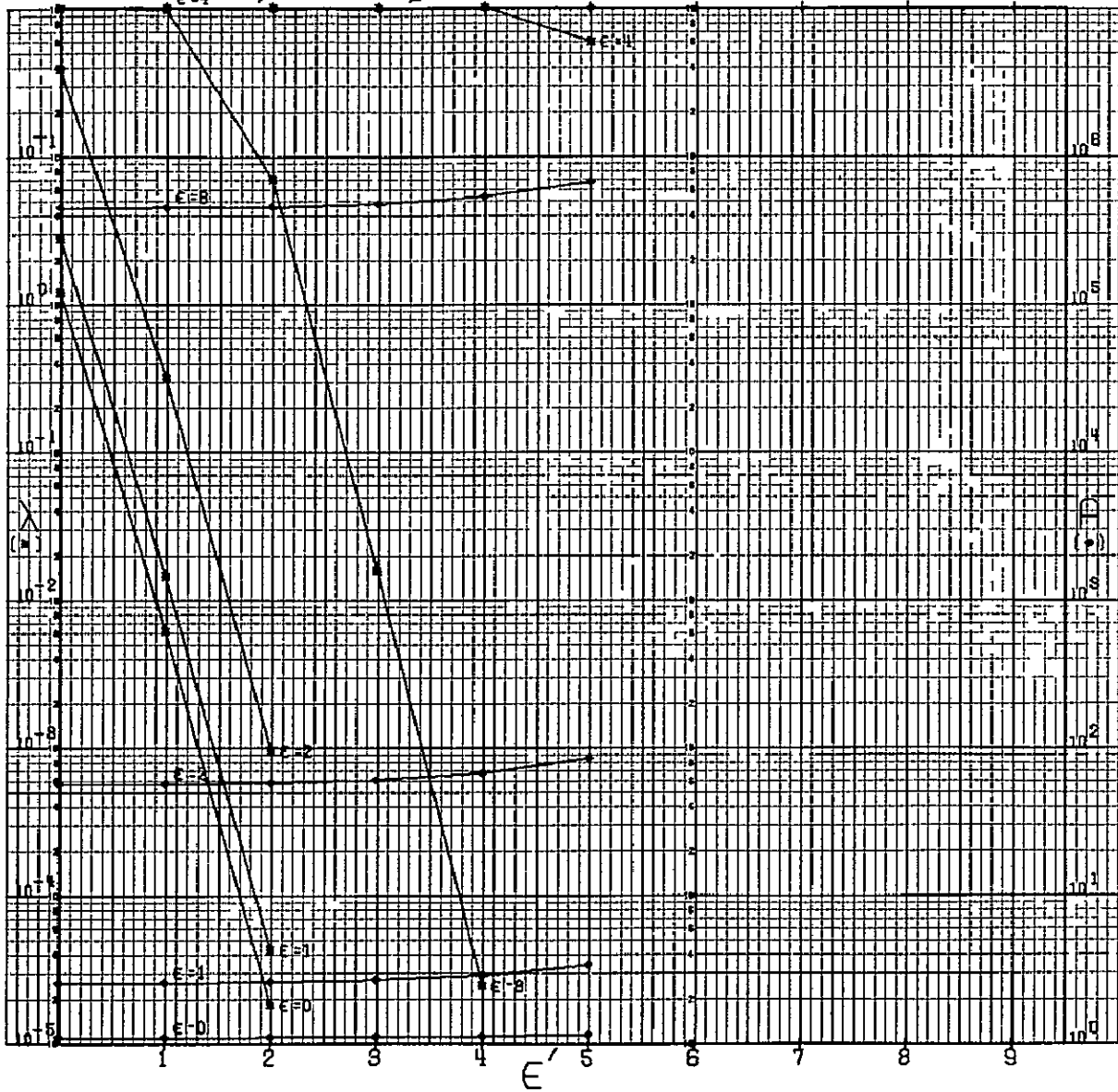
N = 11

CODE 101101110001
GSFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



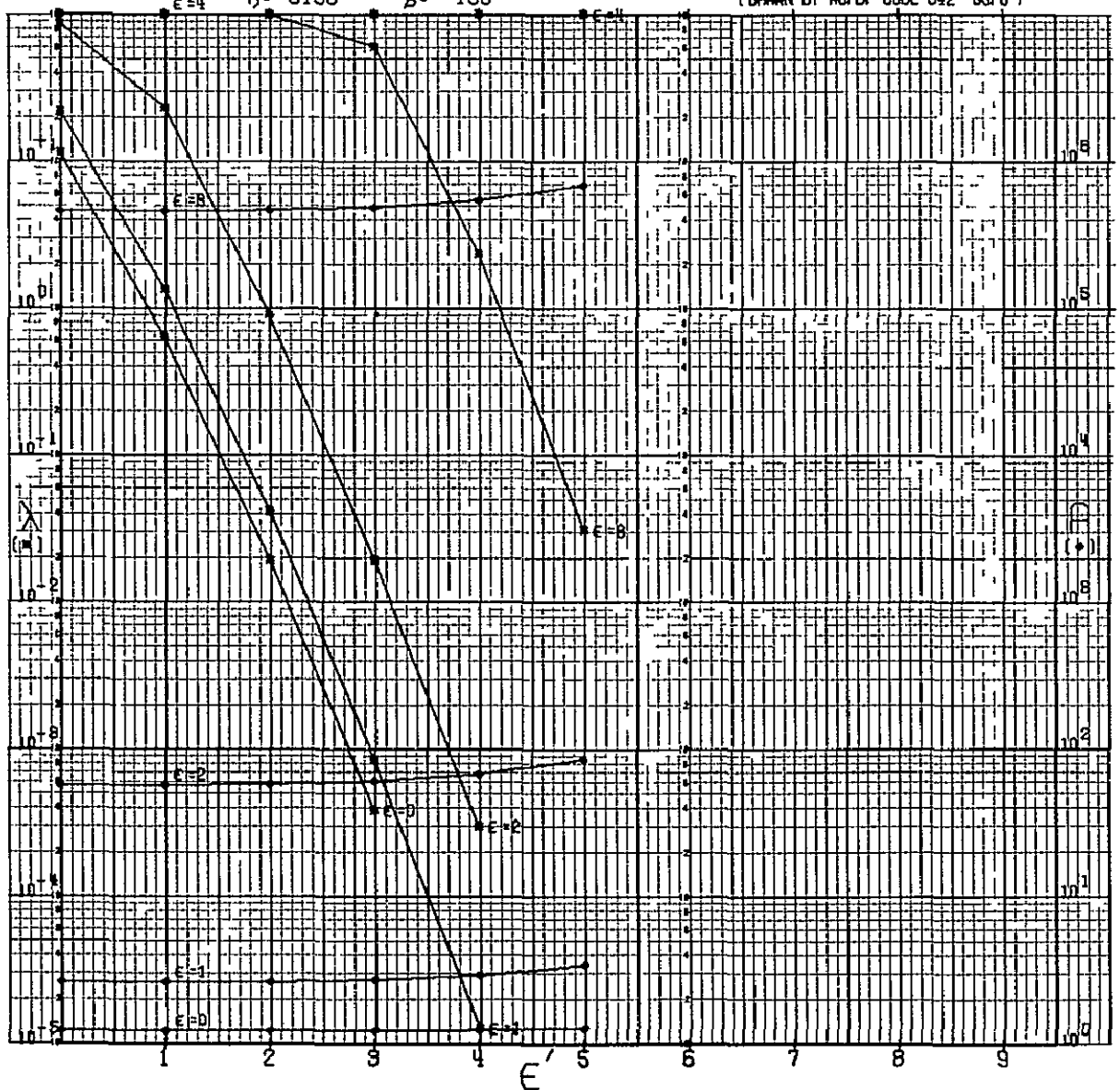
$N = 11$

CODE 10110111000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY ACPB, CODE 542 GSFC)



N = 11

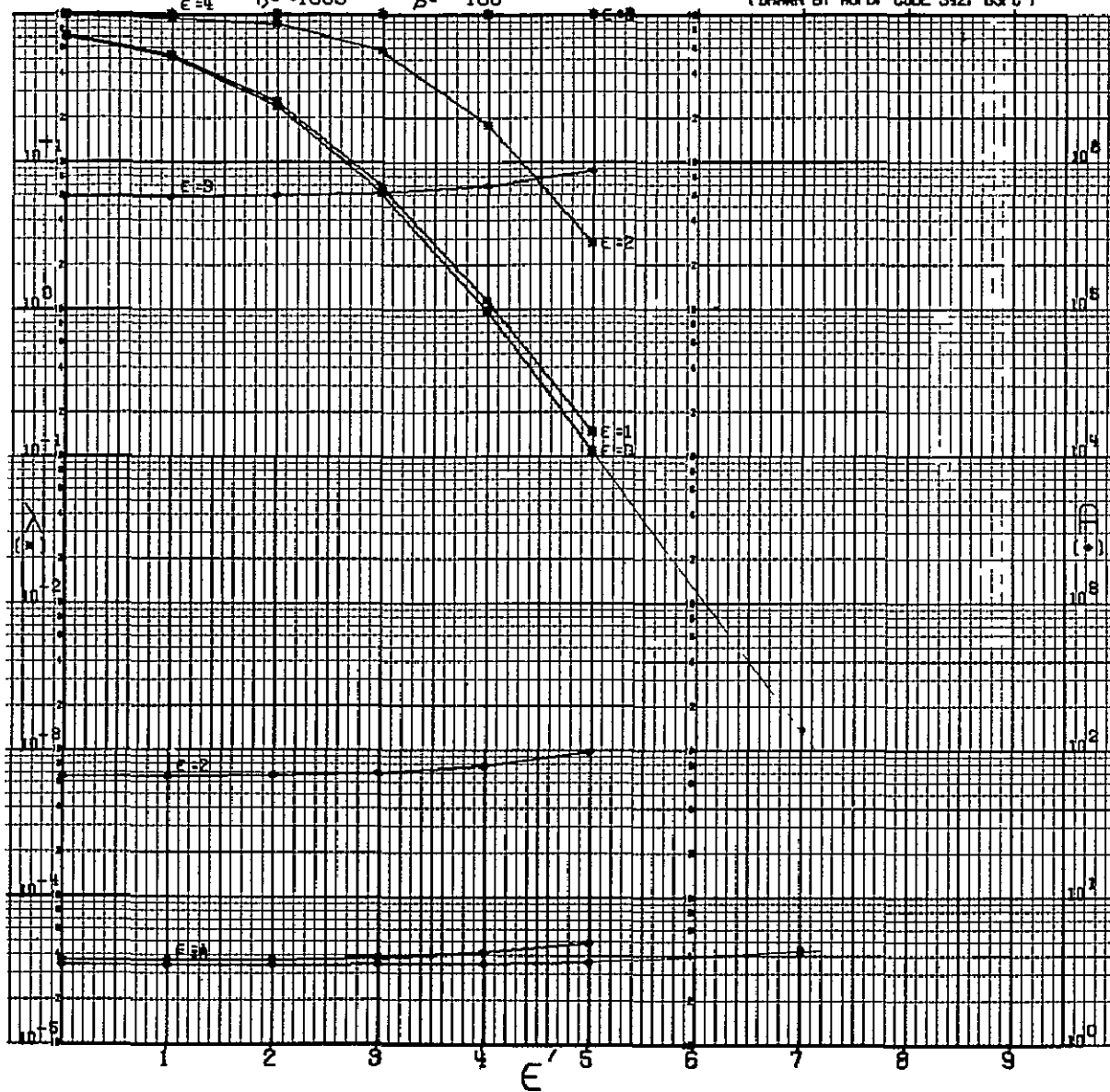
CODE 10110111000

GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)

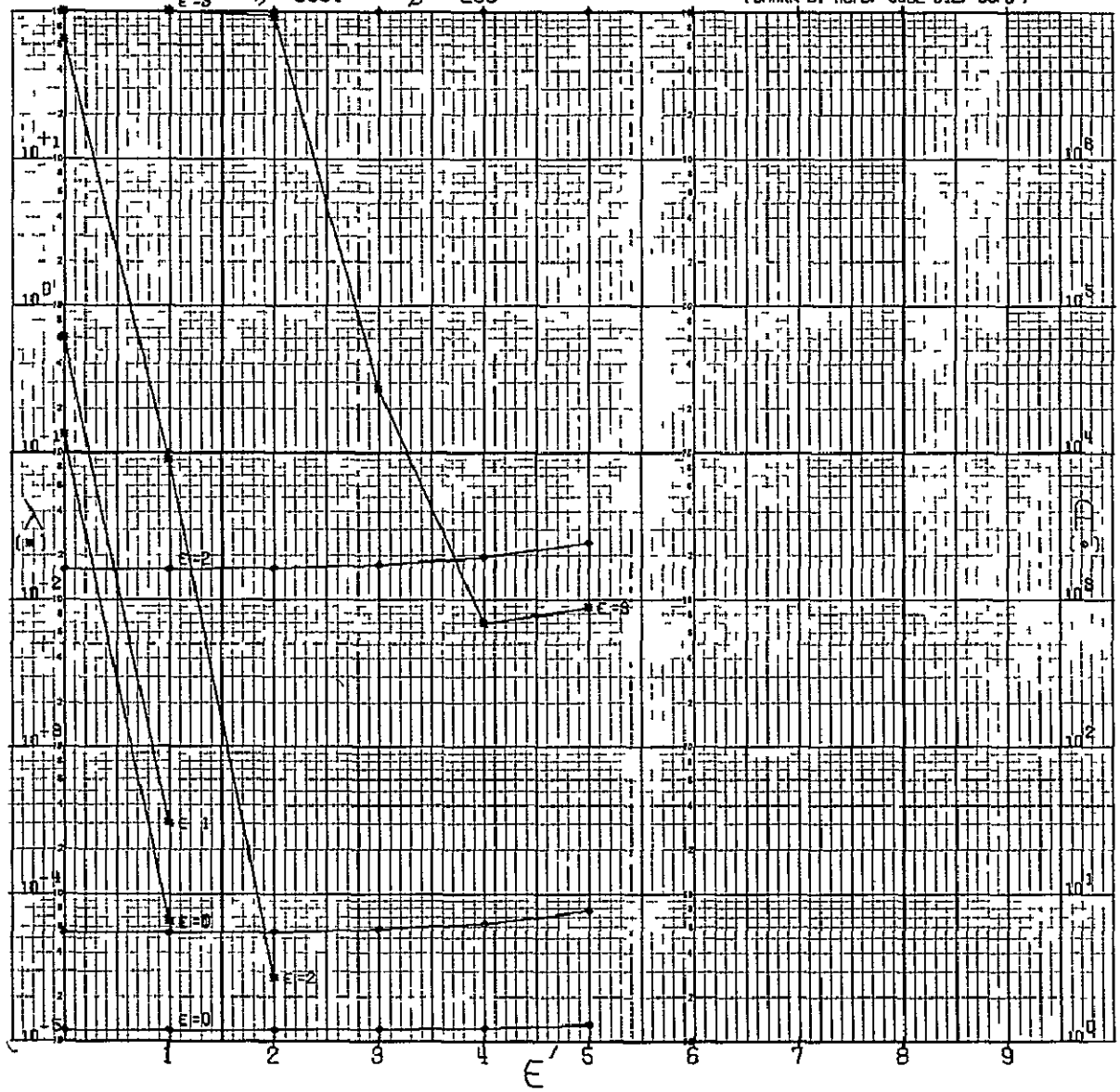


N - 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.0001$ $\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



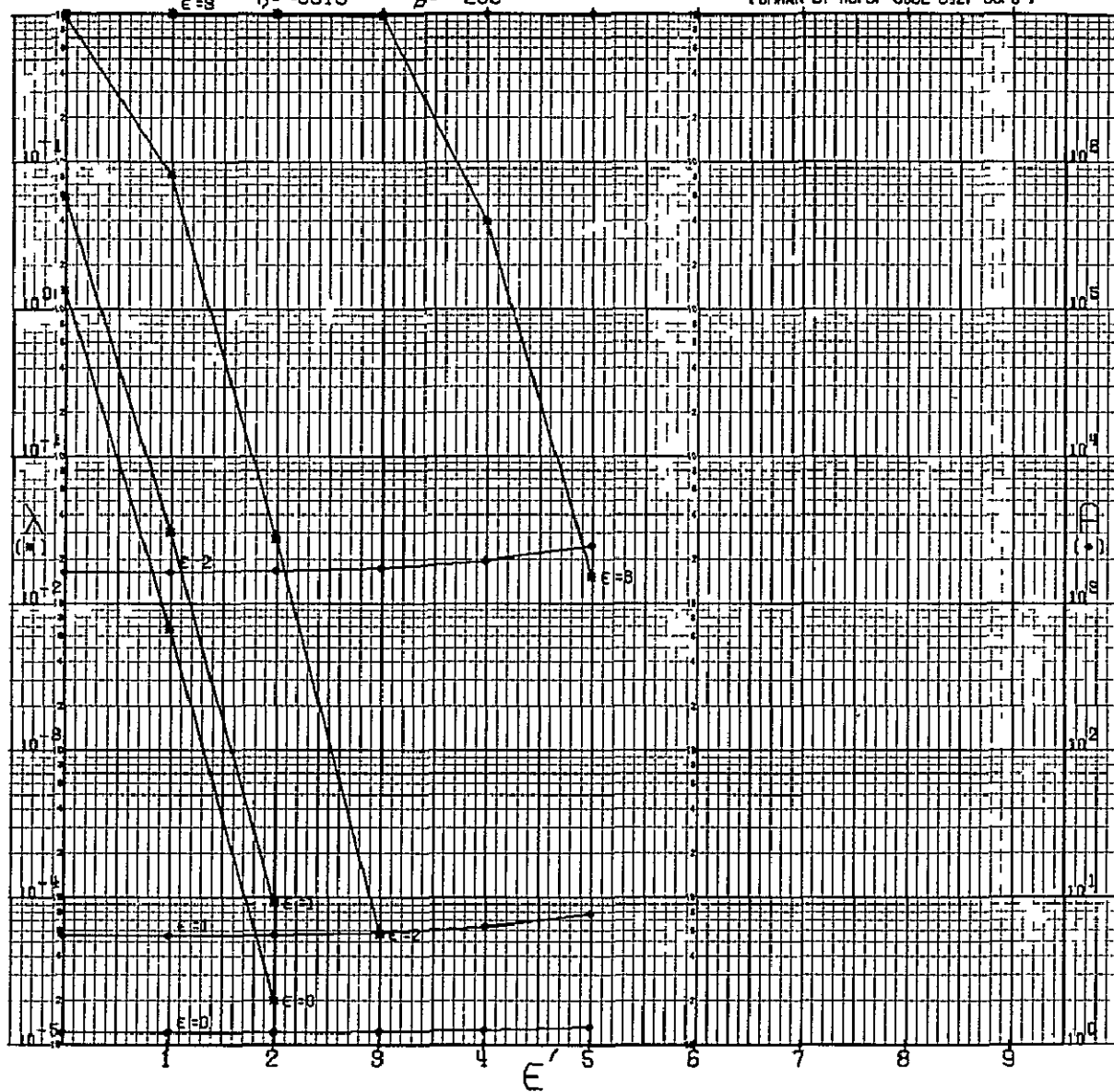
N = 11

CODE 10110111000
GSFG STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFG)



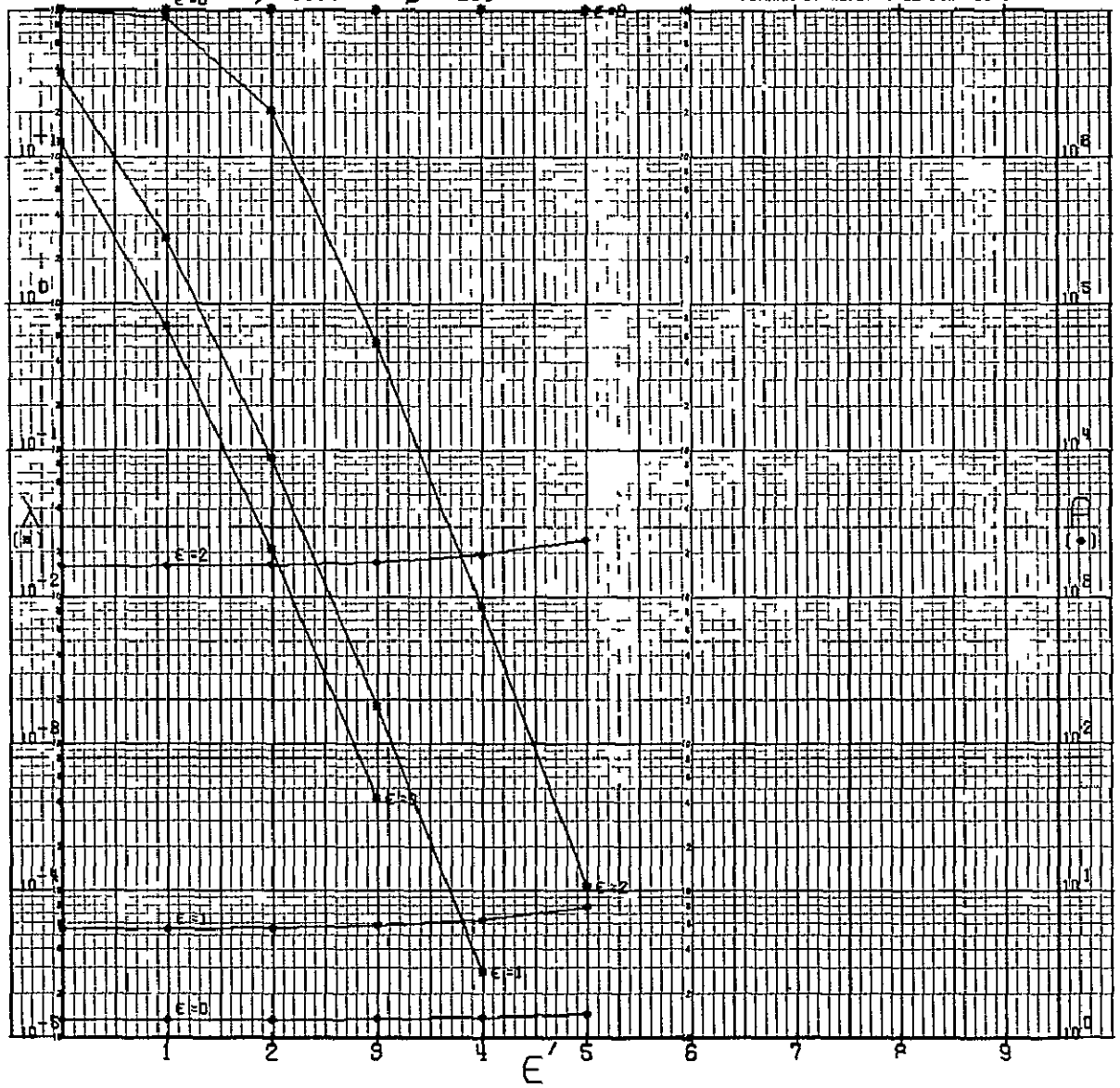
$N = 11$

CODE 10110111000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 200$

(DRAWN BY ROPB, CODE 542 GSFC)



N = 11

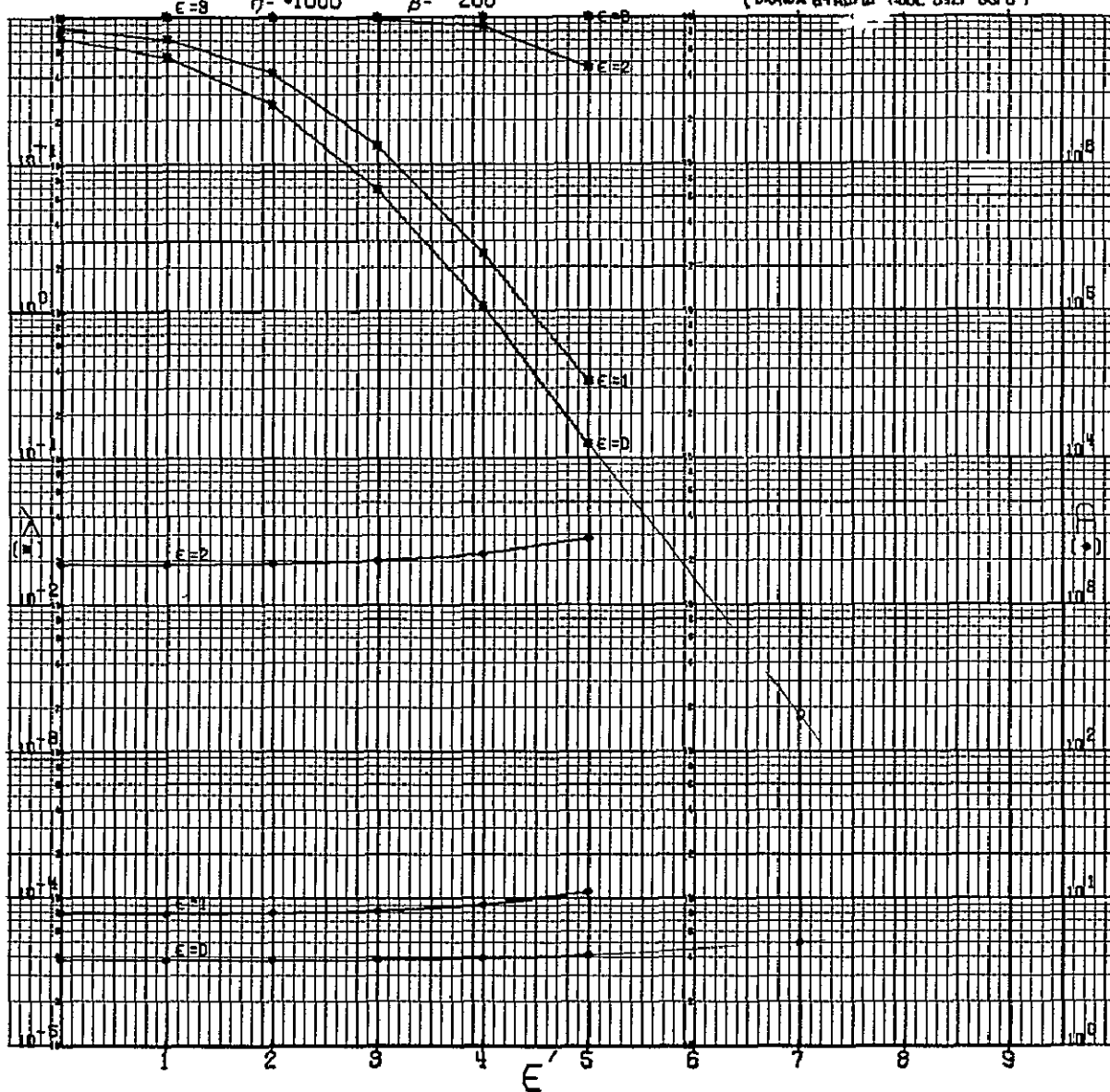
CODE 10110111000

GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ADP, CODE 542, GSFC)



N = 11

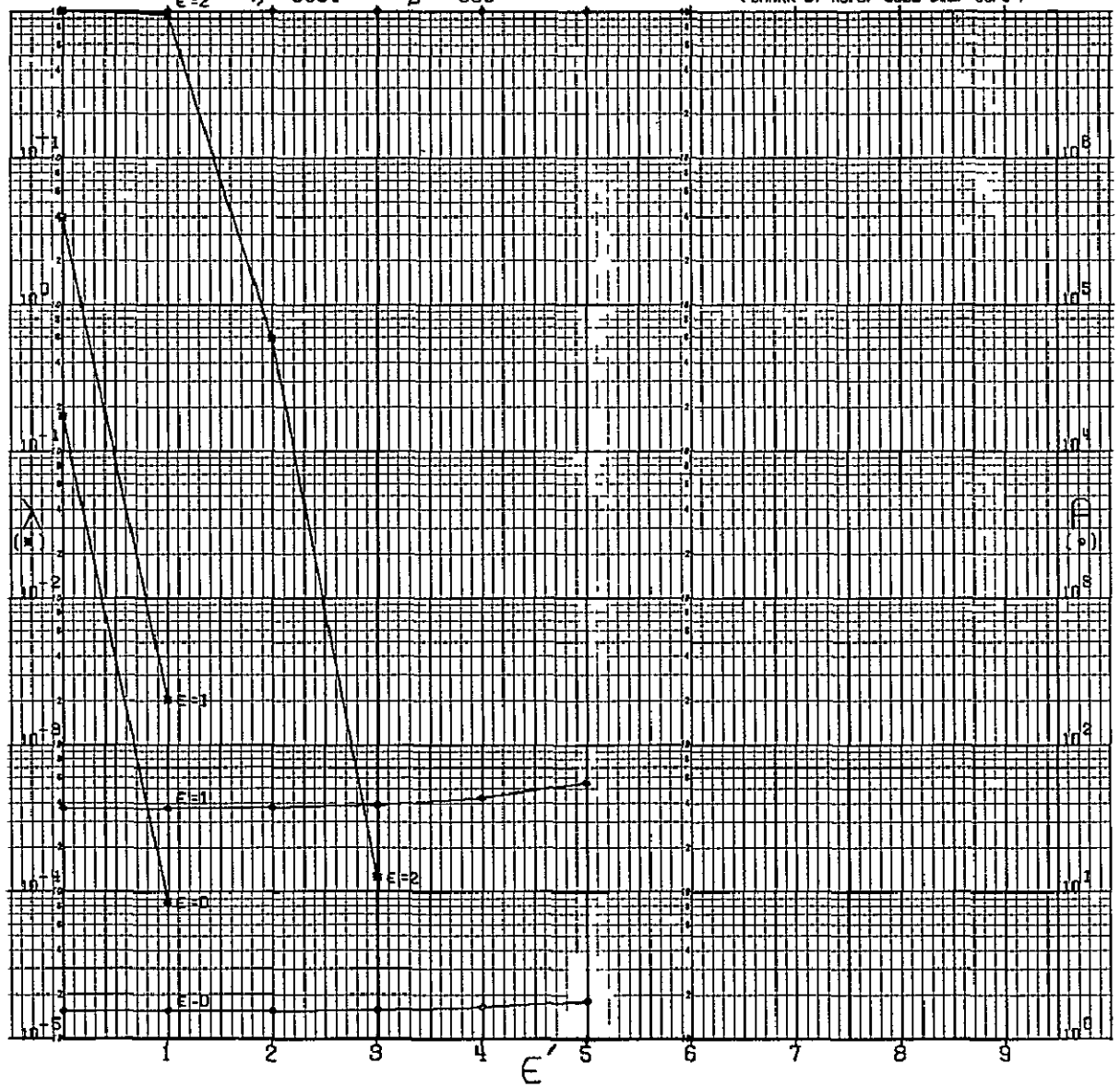
CODE 10110111000

GSFC STANDARD

$\epsilon = 2$ $\eta = .0001$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



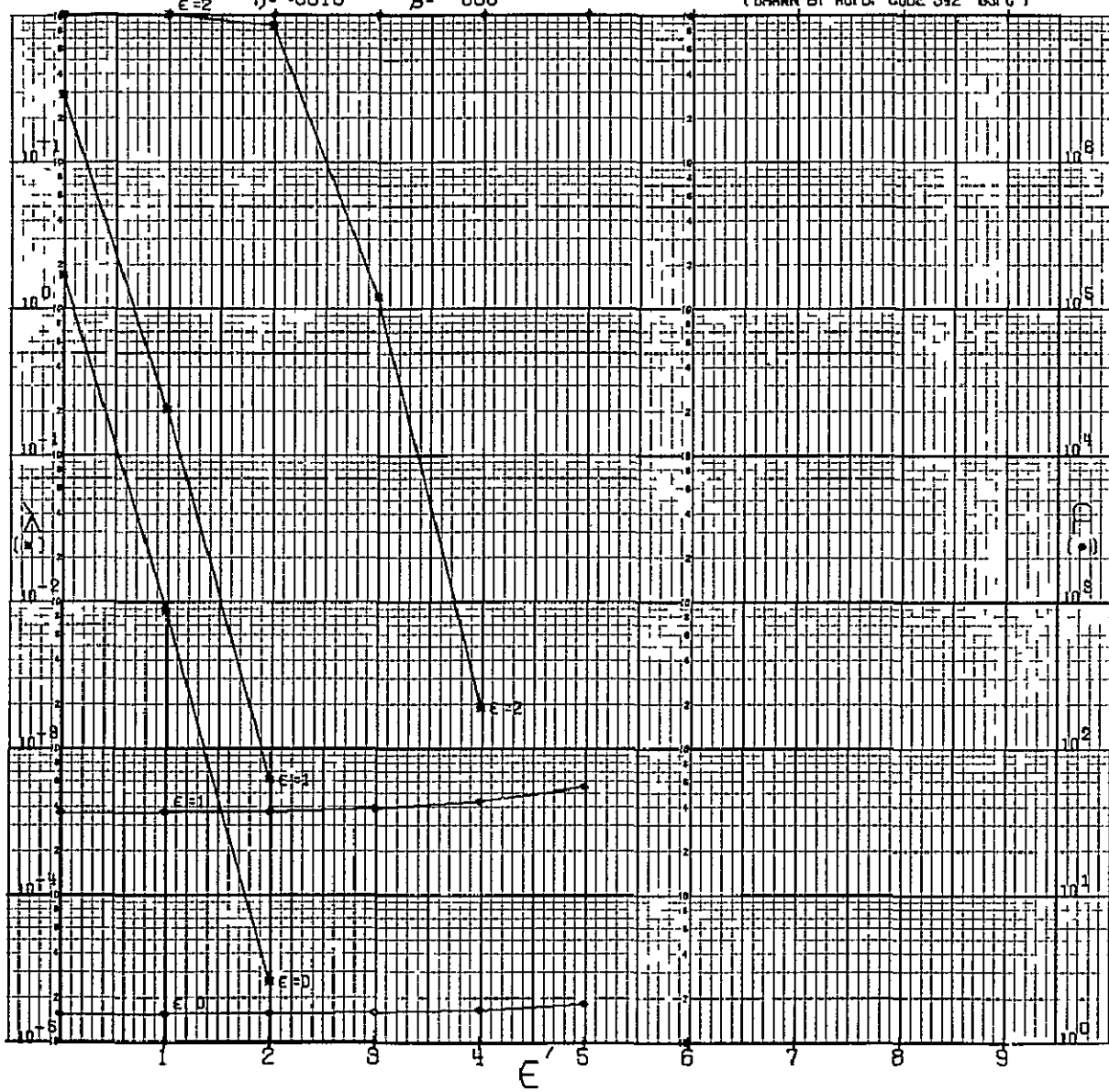
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.0010$

$\beta = 500$

(DRAWN BY ROPB. CODE 542 GSFC)

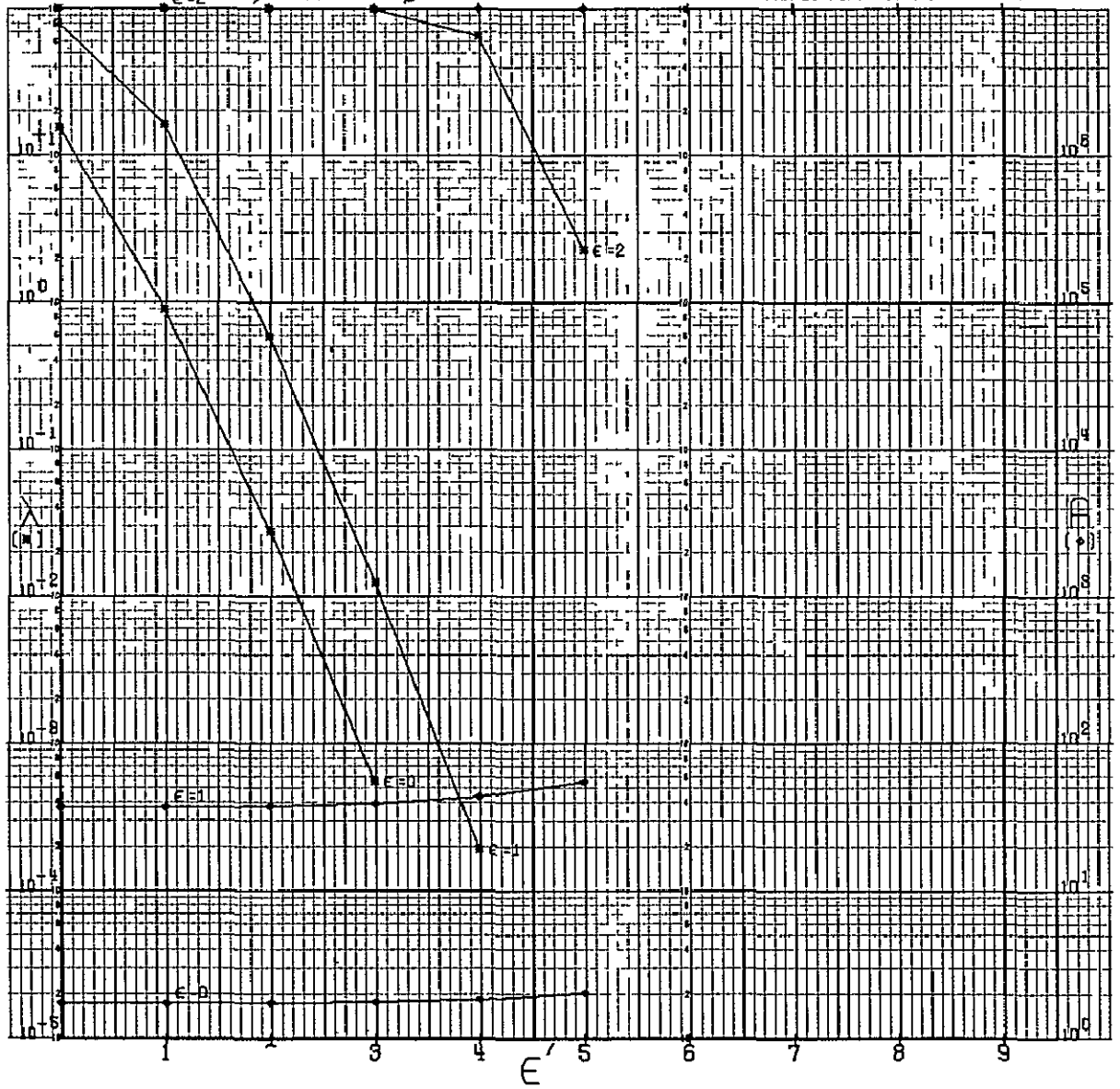


N 11

CODE 10110111000
GSFC STANDARD

$\epsilon = 2$ $\eta = 0.0100$ $\beta = 500$

(DRAWN BY ADPB, CODE 542, GSFC)

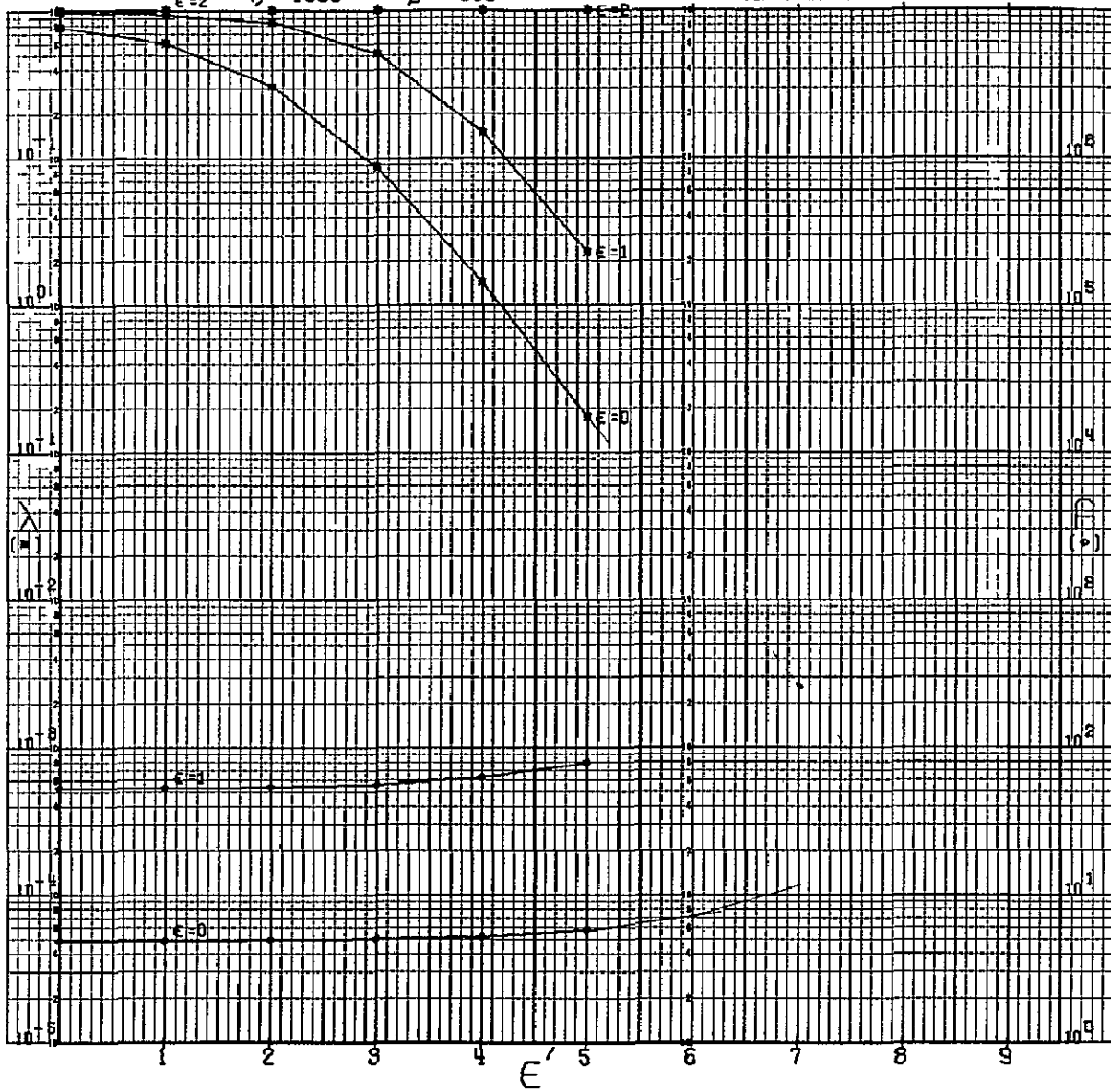


N-11

CODE 10110111000
GSFC STANDARD

$\epsilon = 2$ $\eta = 1000$ $\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 11

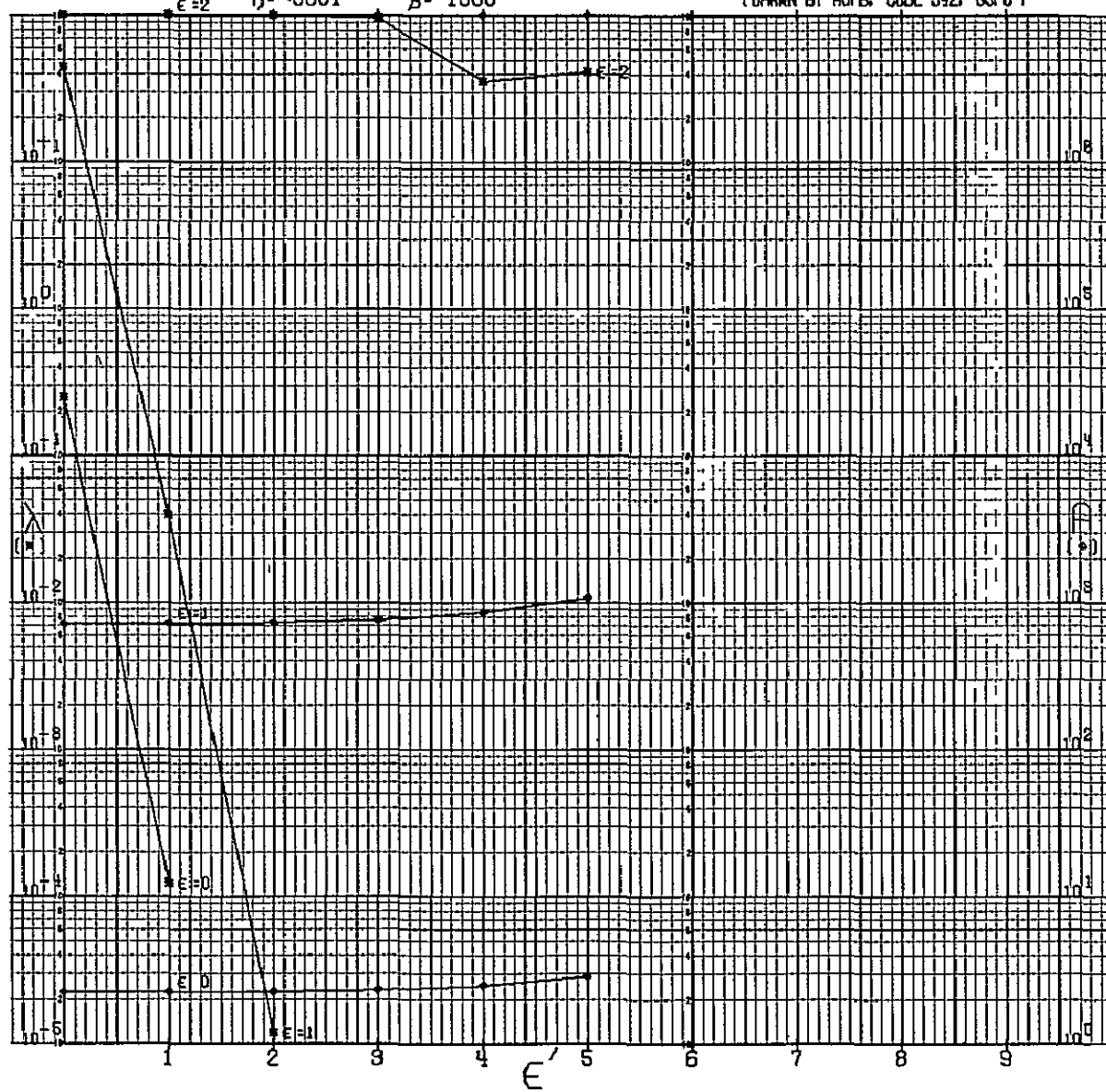
CODE 10110111000
GSFC STANDARD

$\epsilon = 2$

$\eta = 0.0001$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



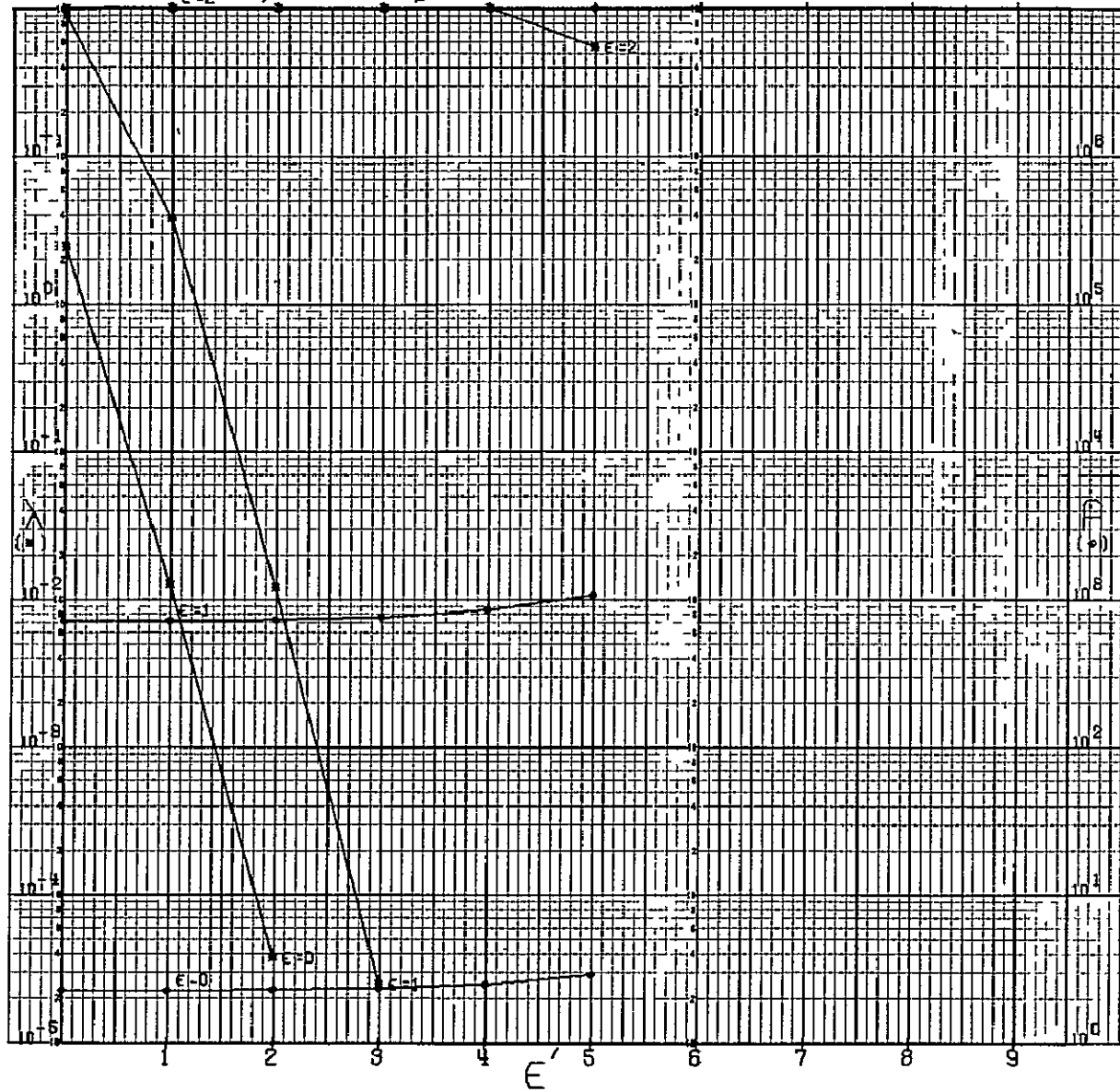
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ASPB. CODE 592, GSFC)



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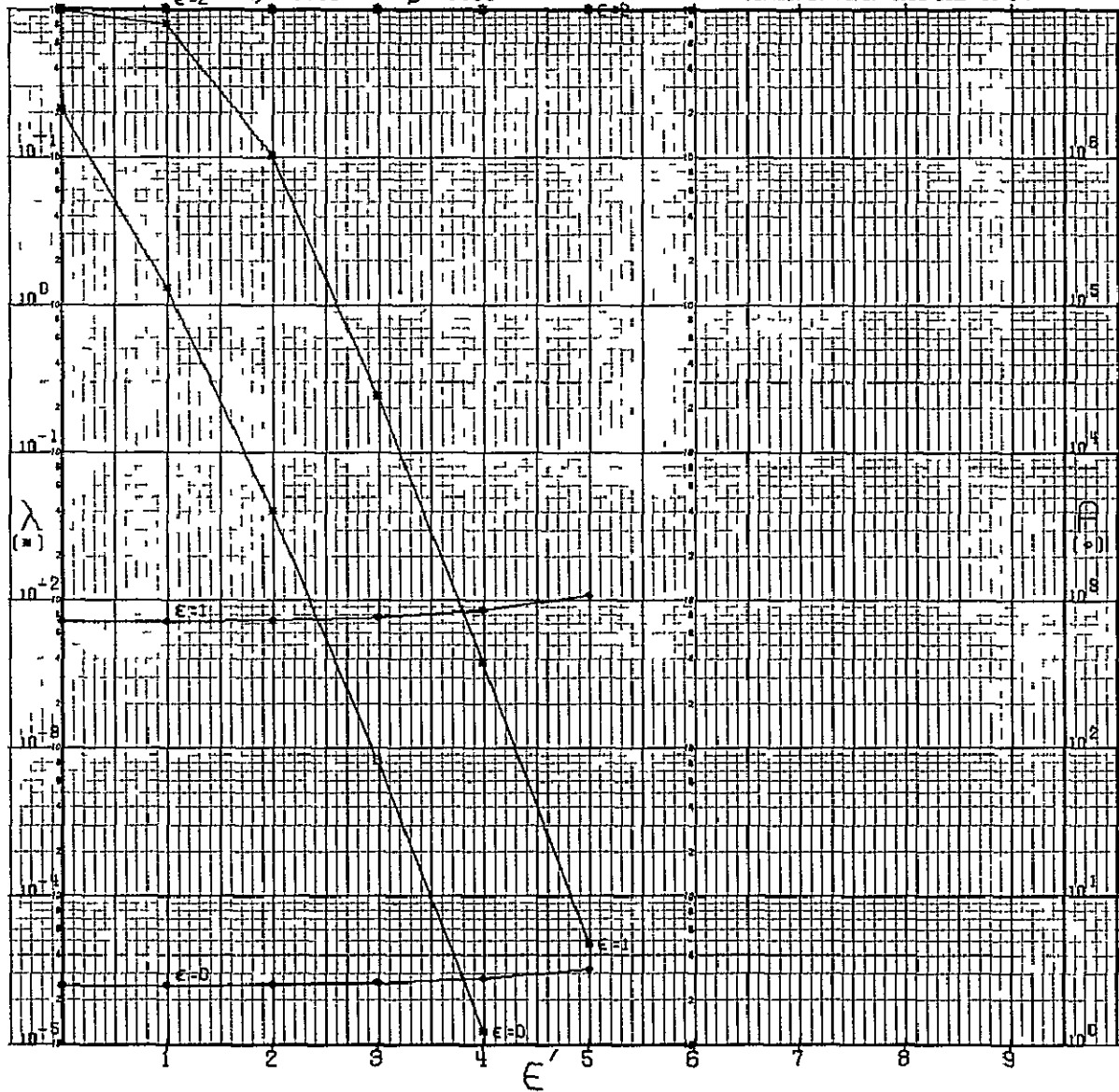
11

CODE 10X10111000
GSFC STANDARD

$\epsilon = 2$ $\eta = 0.0100$

$\beta = 1000$

(DRAWN BY ACPB, CODE 542, GSFC)



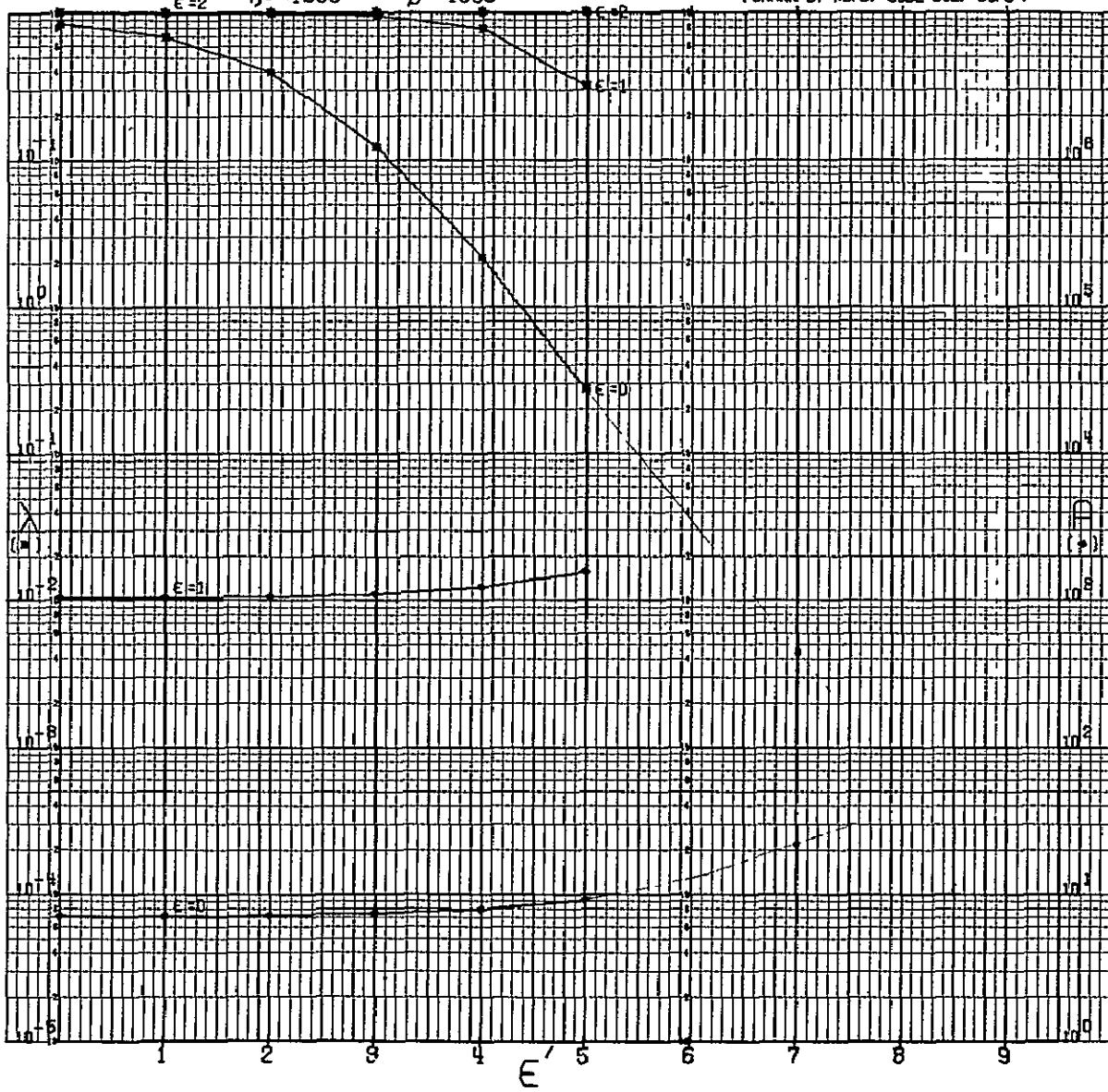
$N = 11$

CODE 10110111000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)

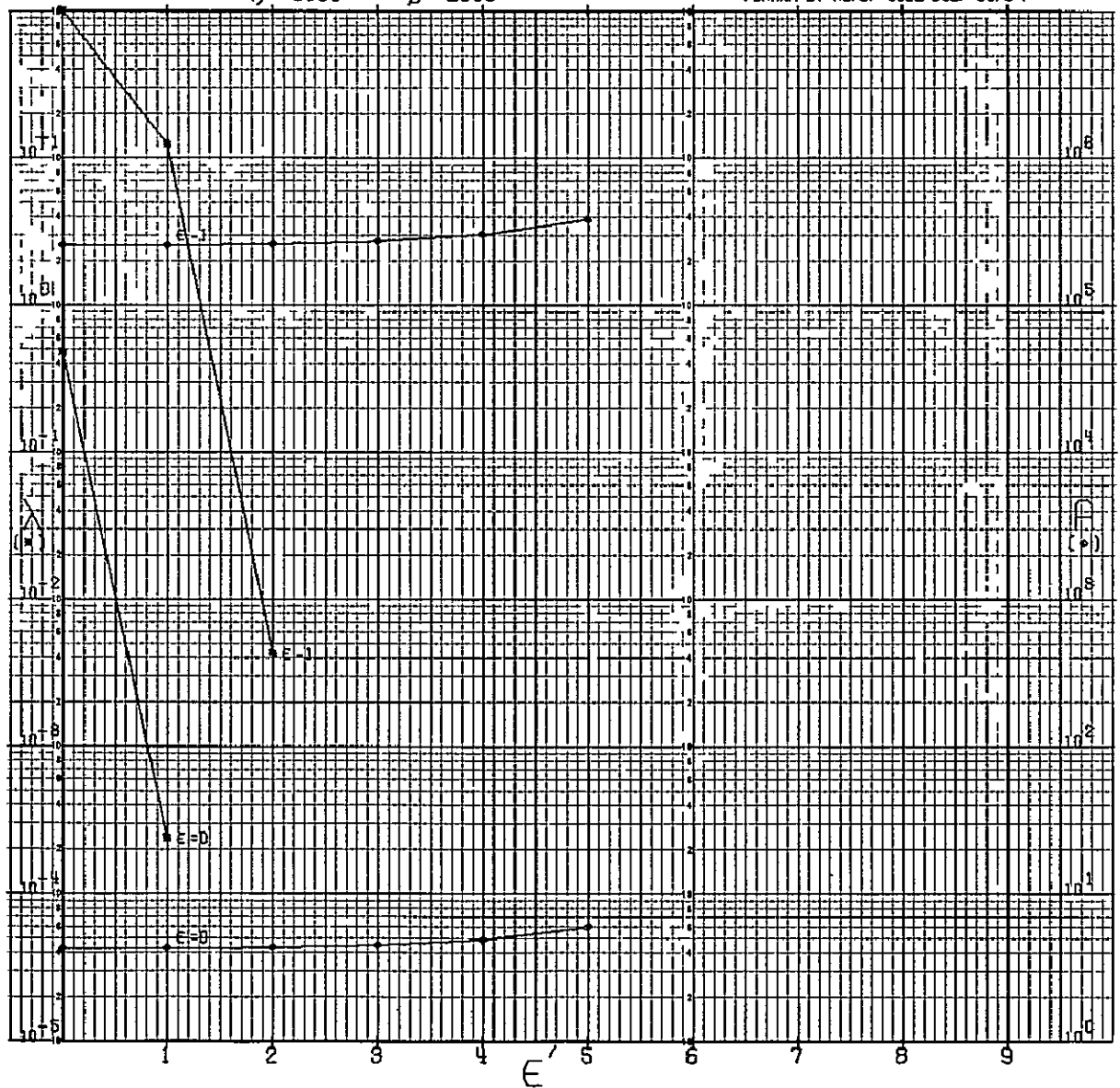


N - 11

CODE 10110111000
GSFC STANDARD

$\eta = .0001$ $\beta = 2000$

(DRAWN BY ROPS, CODE 542, GSFC)



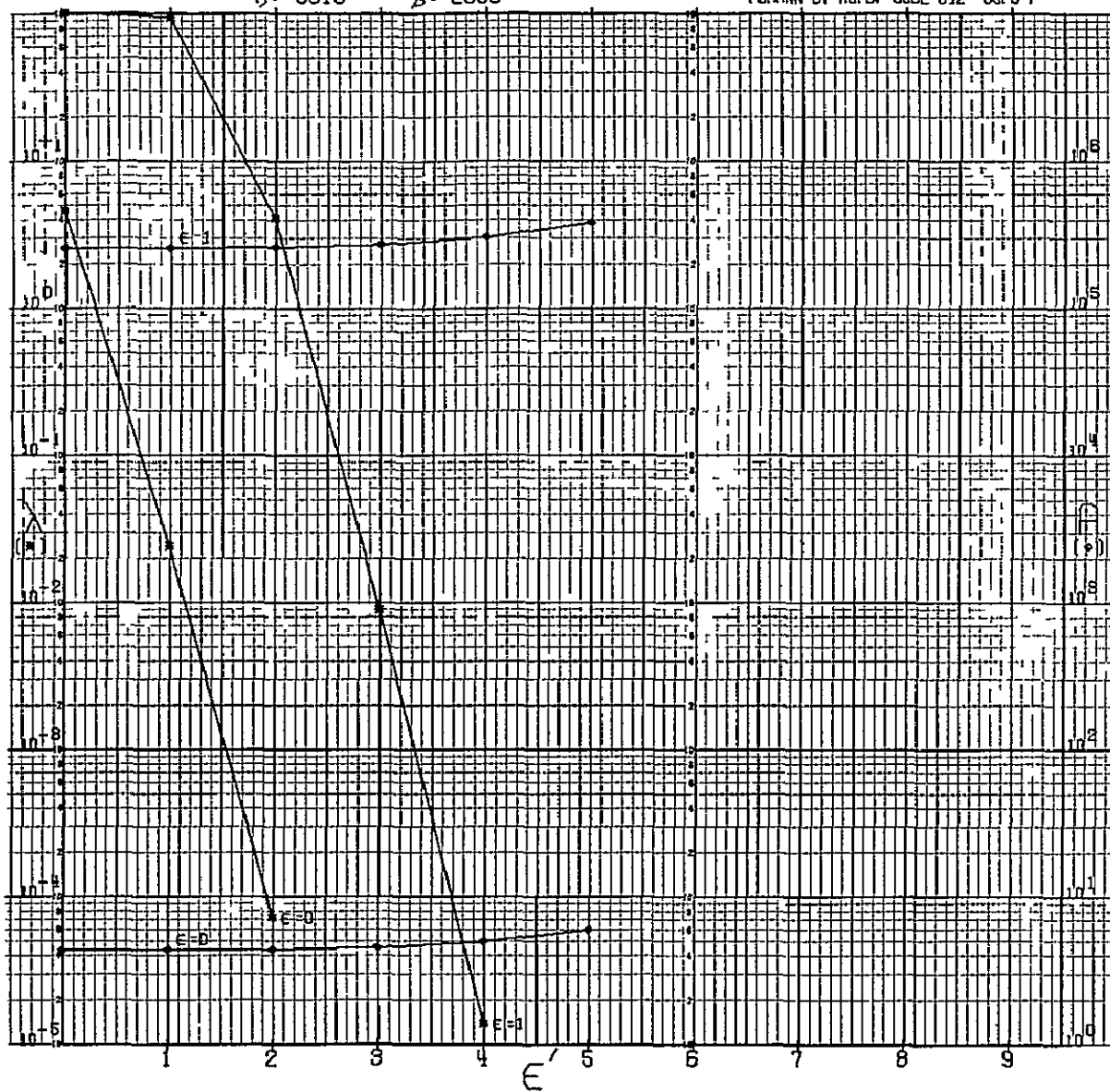
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = +0010$

$\beta = 2000$

(DRAWN BY RCPB, CODE 542 GSFC)



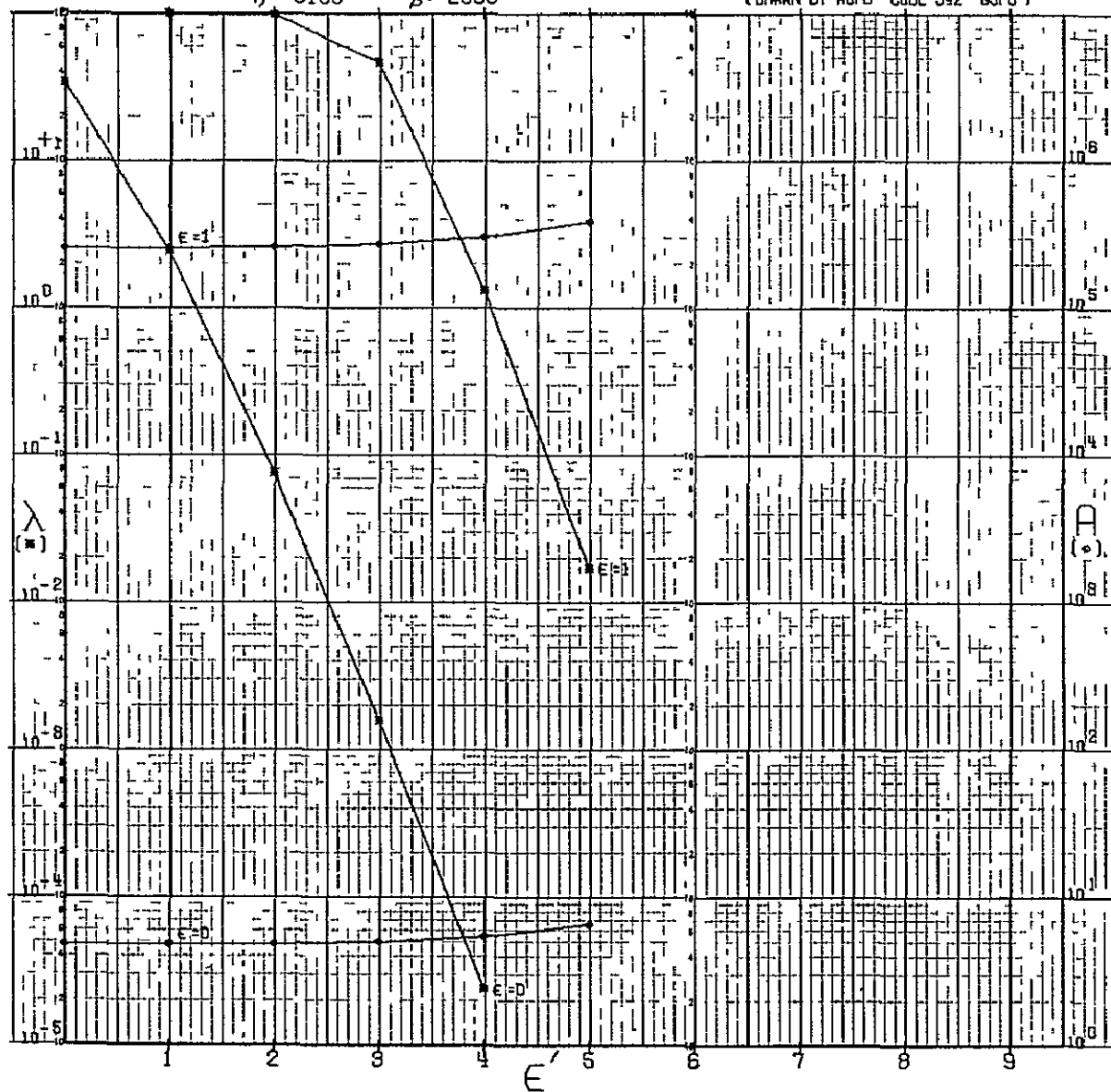
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ADPB CODE 592 GSFC)



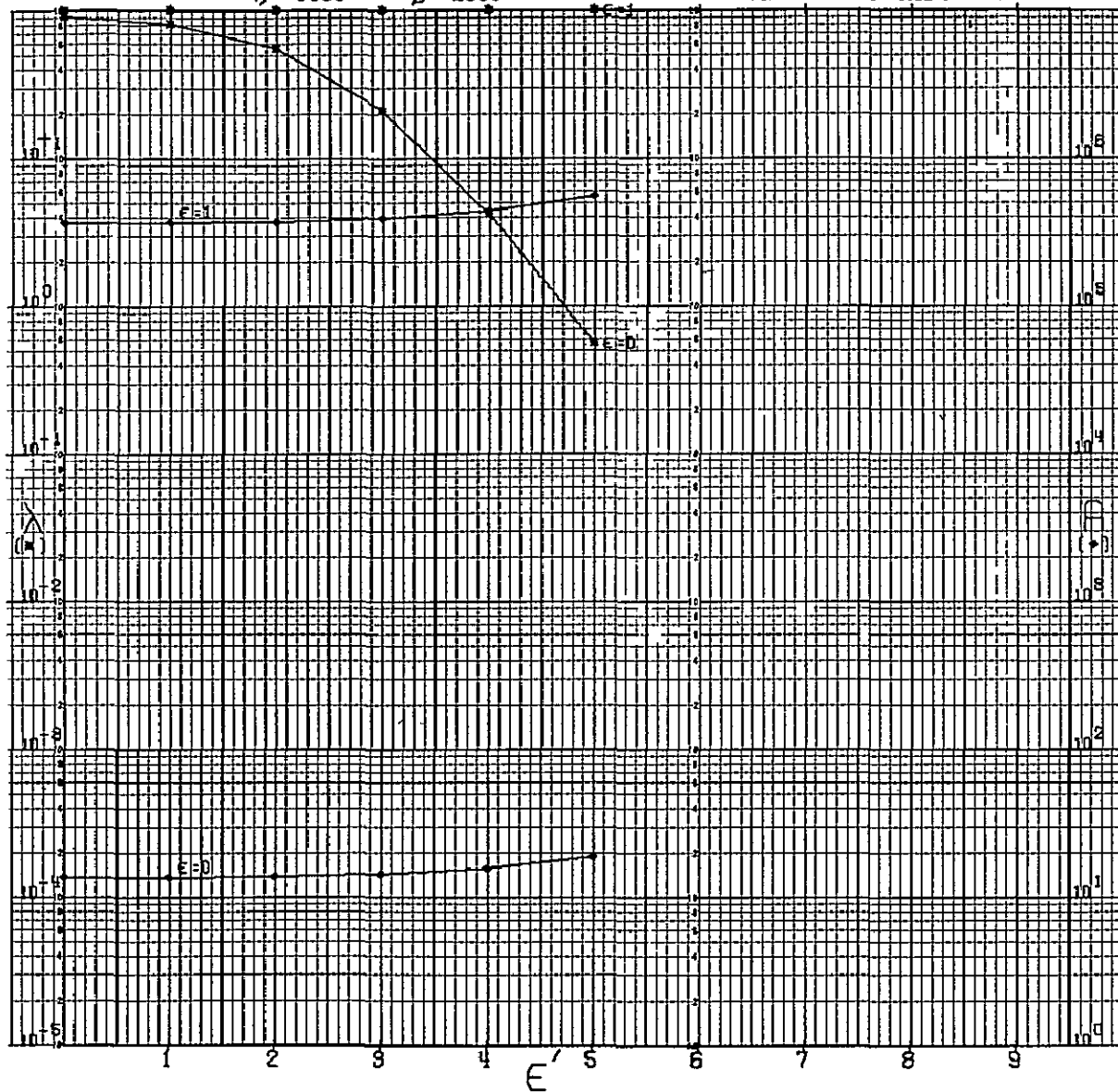
N 11

CODE 10110111000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-110

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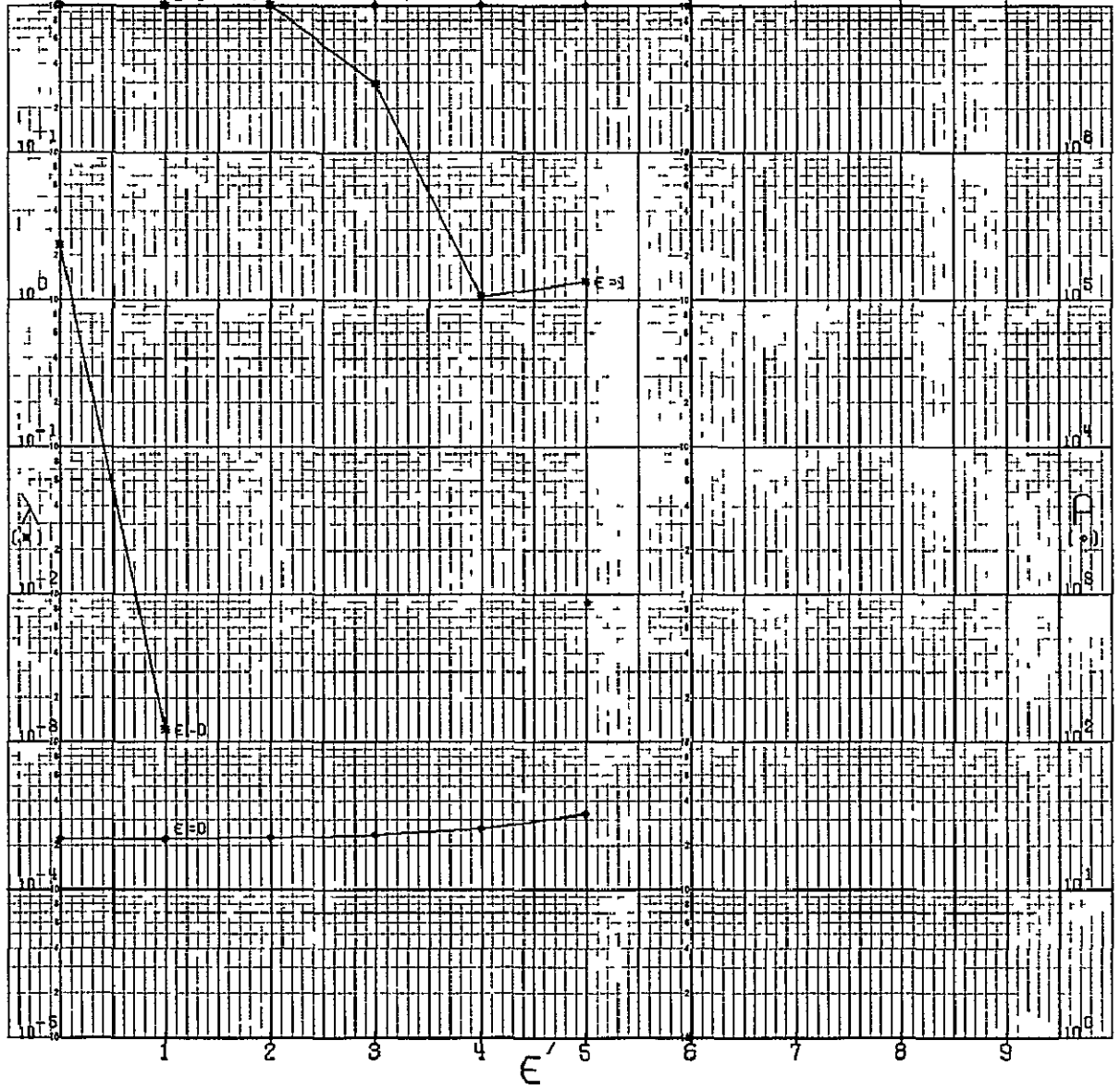
N 11

CODE 10110111000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



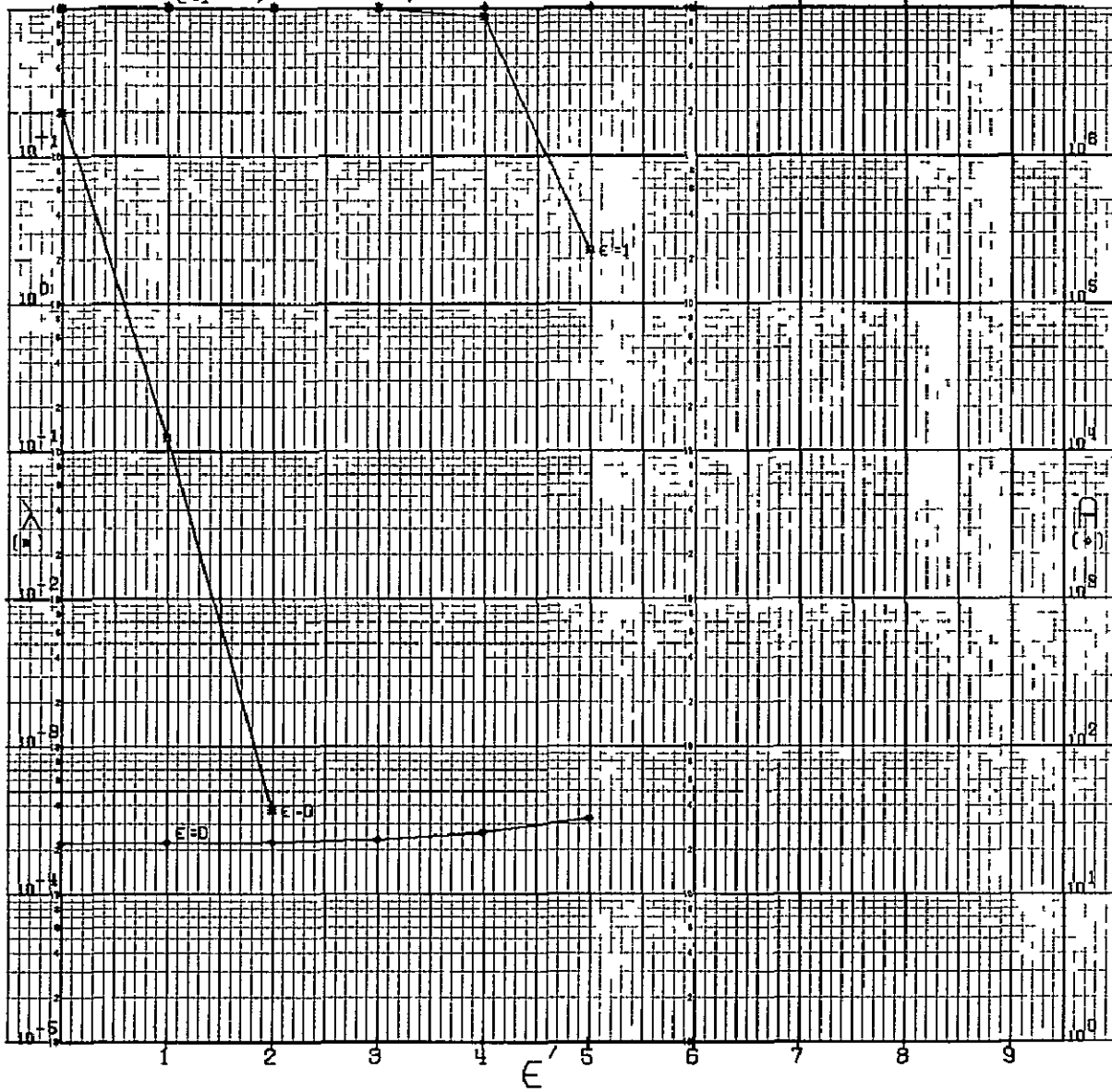
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPEL CODE 542, GSFC)



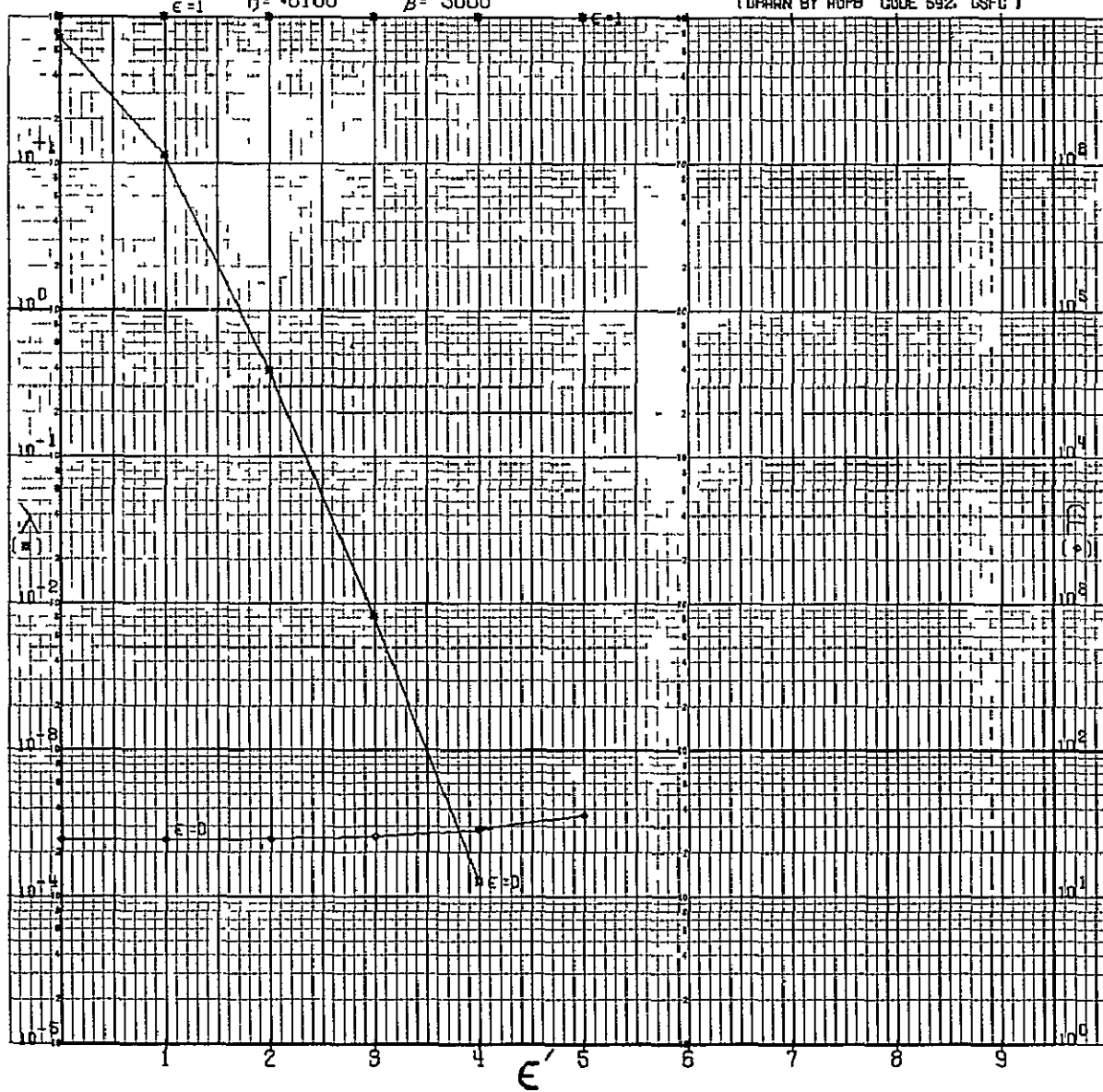
N 11

CODE 10110111000
DSFC STANDARD

$\eta = 0.0100$

$\beta = 5000$

(DRAWN BY ADPB CODE 592, DSFC)



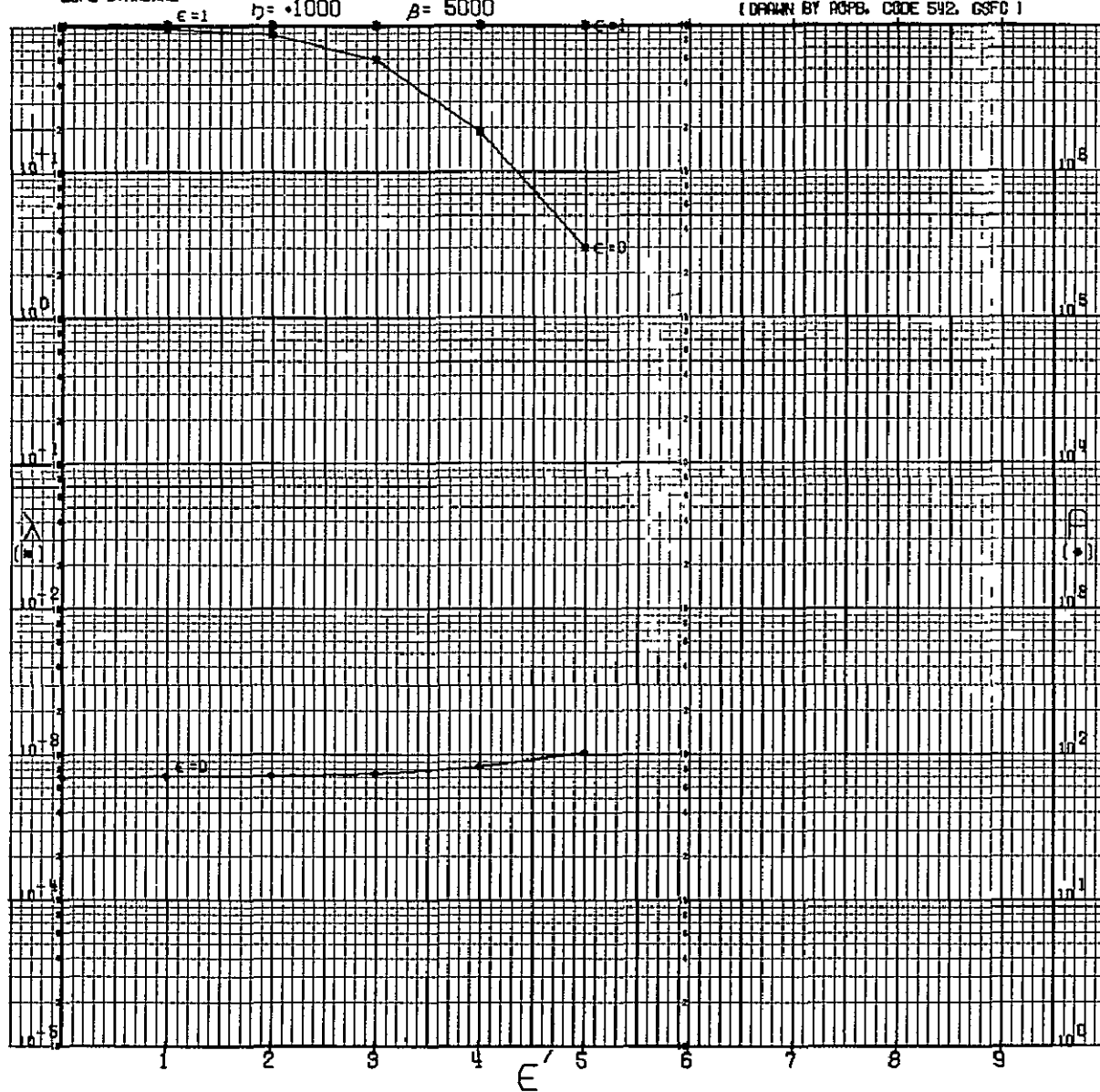
N = 11

CODE 10110111000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY RCPB, CODE 542, GSFC)



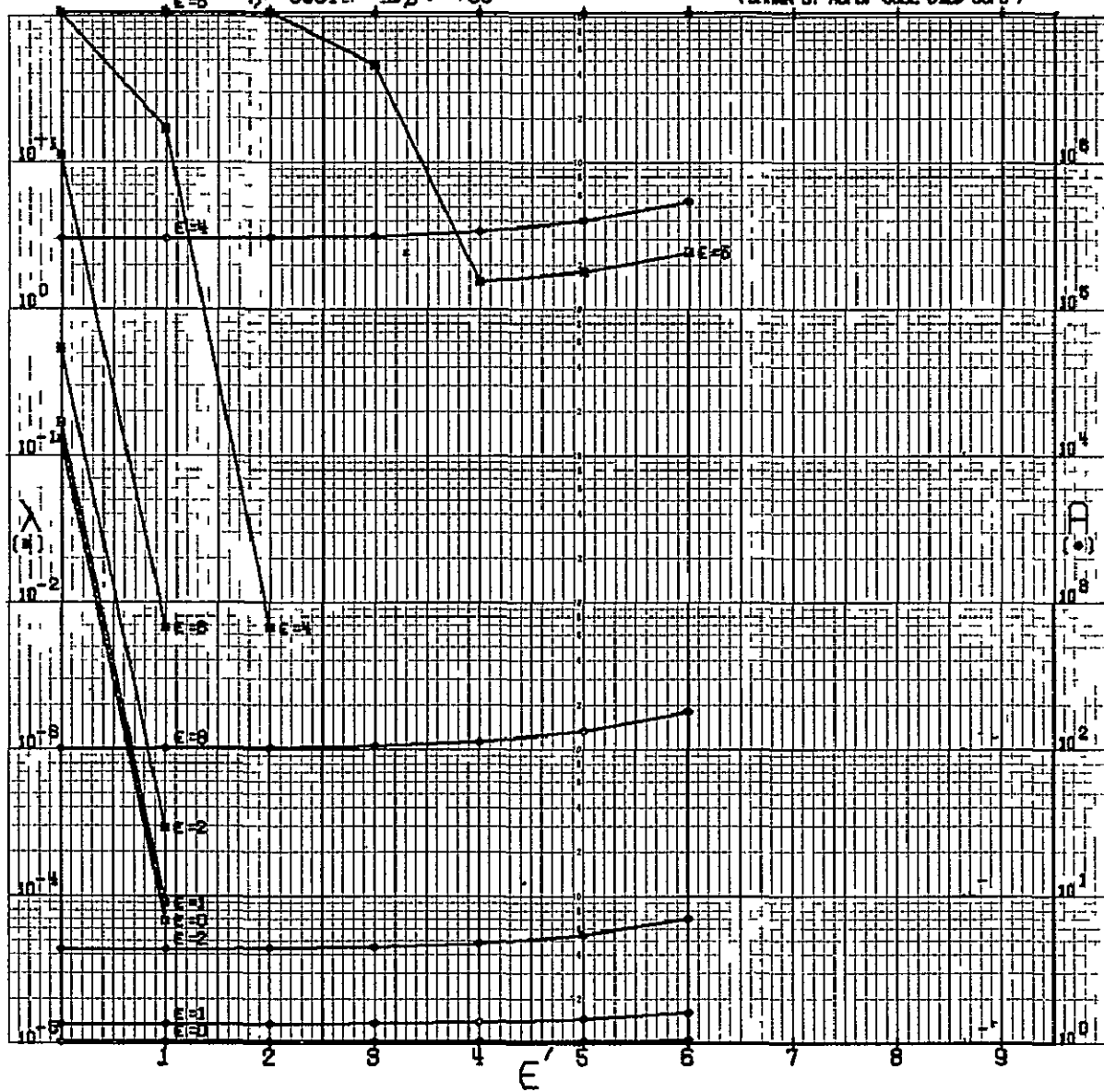
$$N = 12$$

N=12

CODE 110101100000
GDFD STANDARD

$\eta = 0.001$, $\beta = 150$

(DRAWN BY AOPS. CODE 512, GDFD)

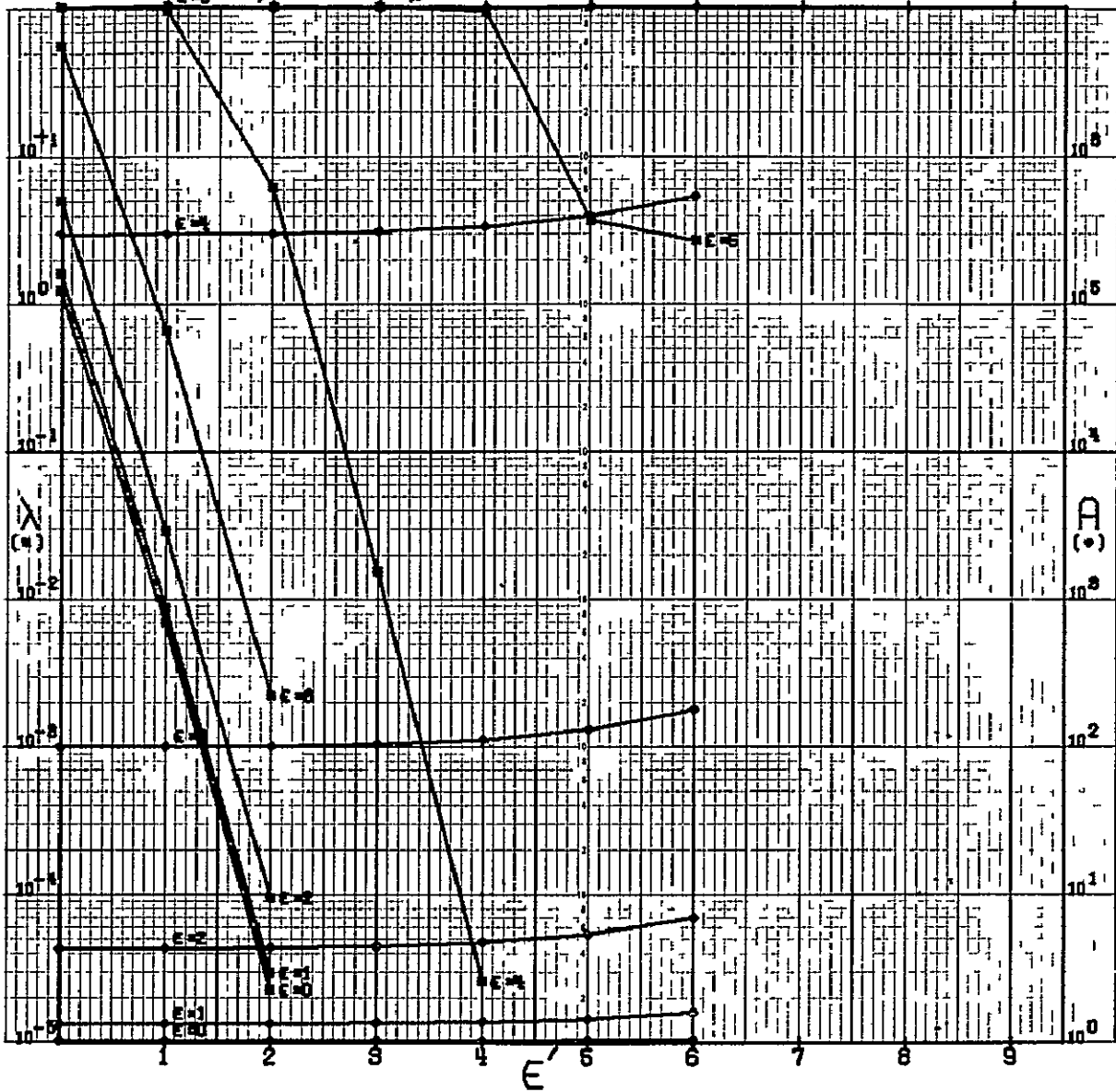


N=12

CODE 110101100000
GSPD STANDARD

$\eta = 0.010$ $\beta = 50$

(DRAWN BY ROPE, CODE 592, GSPD)

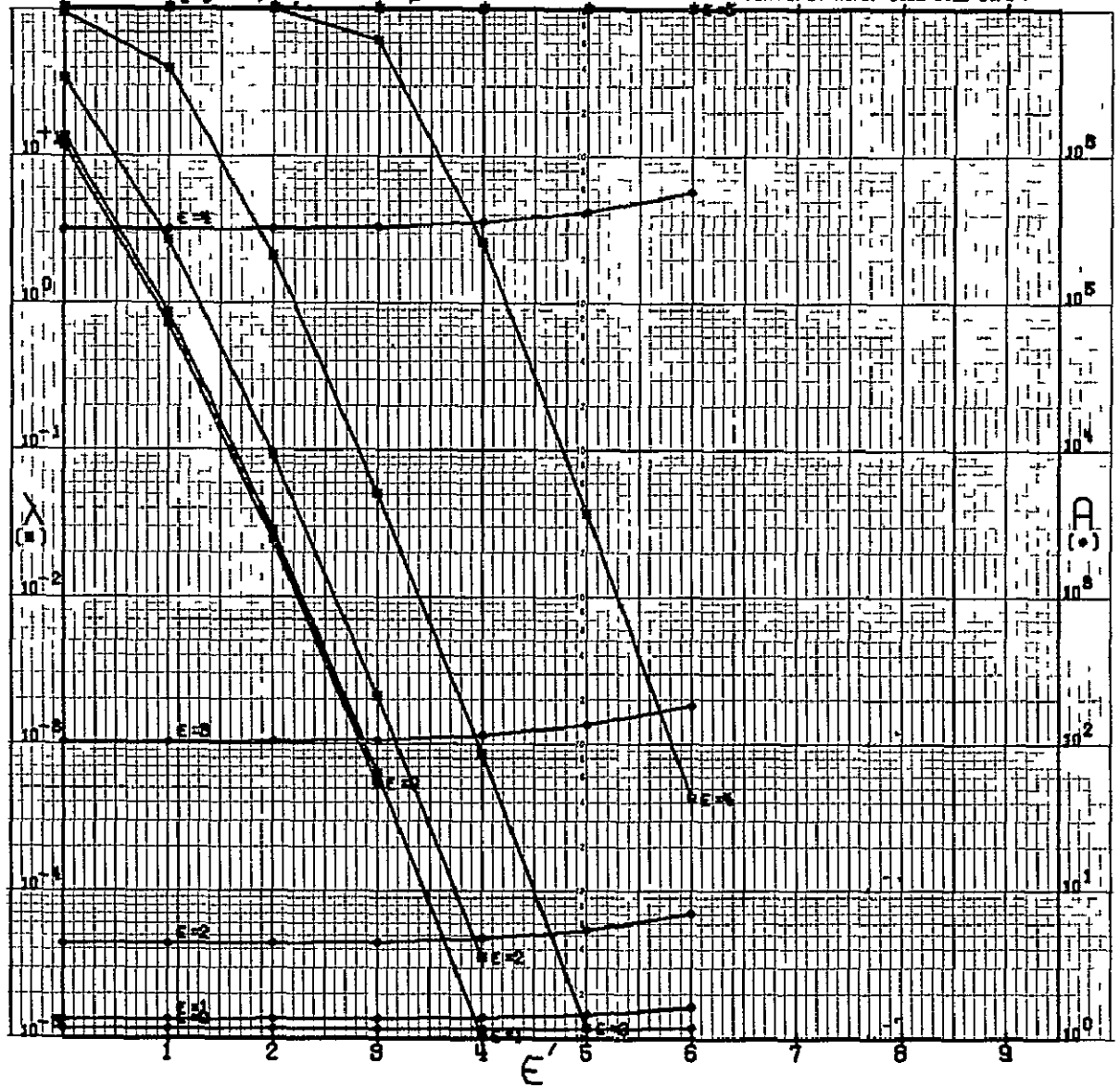


N = 12

CODE 110101100000
GDF STANDARD

$\eta = 0.100$ $\beta = 50$

(DRAWN BY ROPS, CODE 542, GDF)

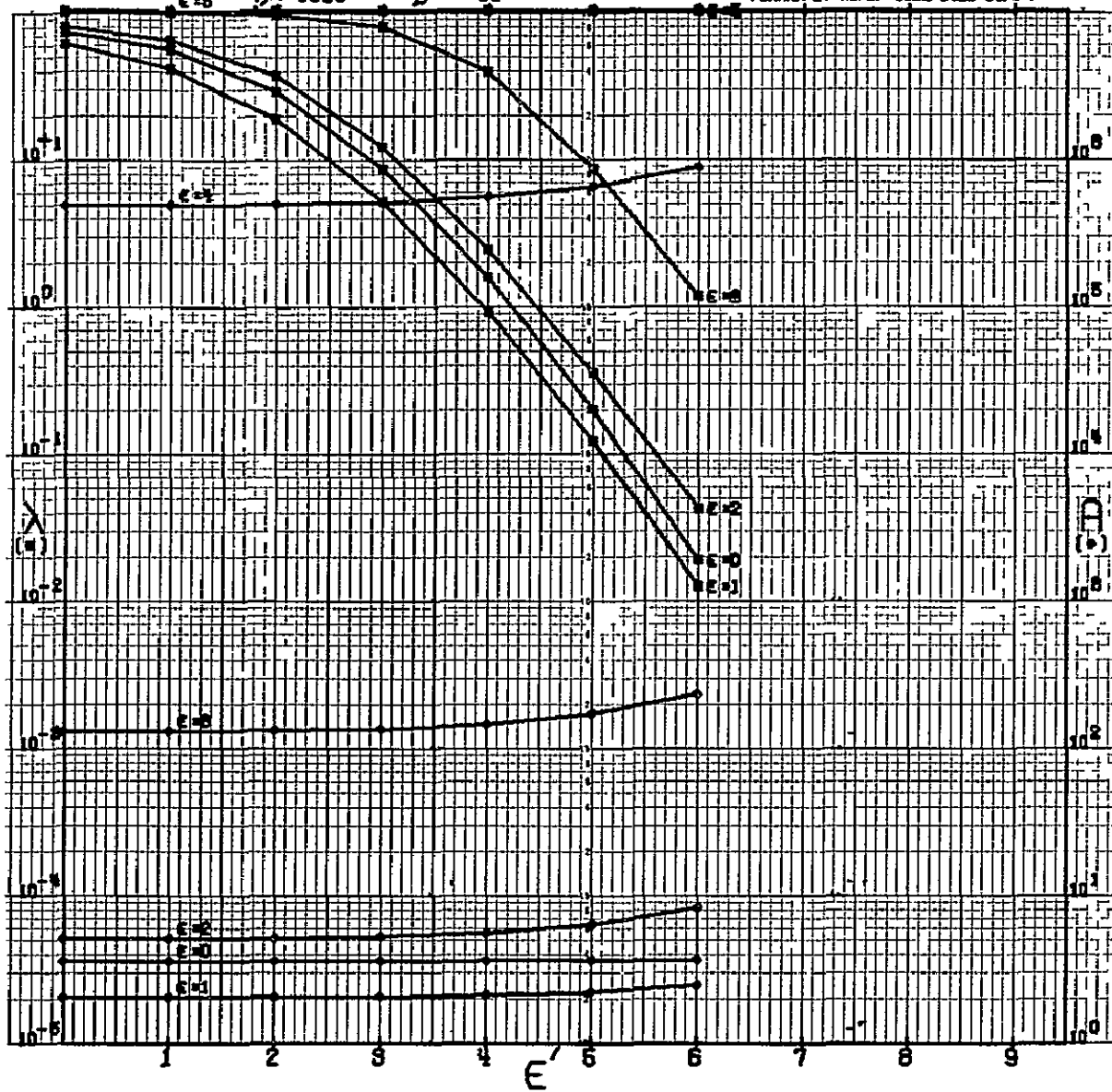


N = 12

CODE 110101100000
GEPD STANDARD

$b = 1000$ $\beta = 50$

(DRAWN BY RCPB, CODE 512, GEPD)

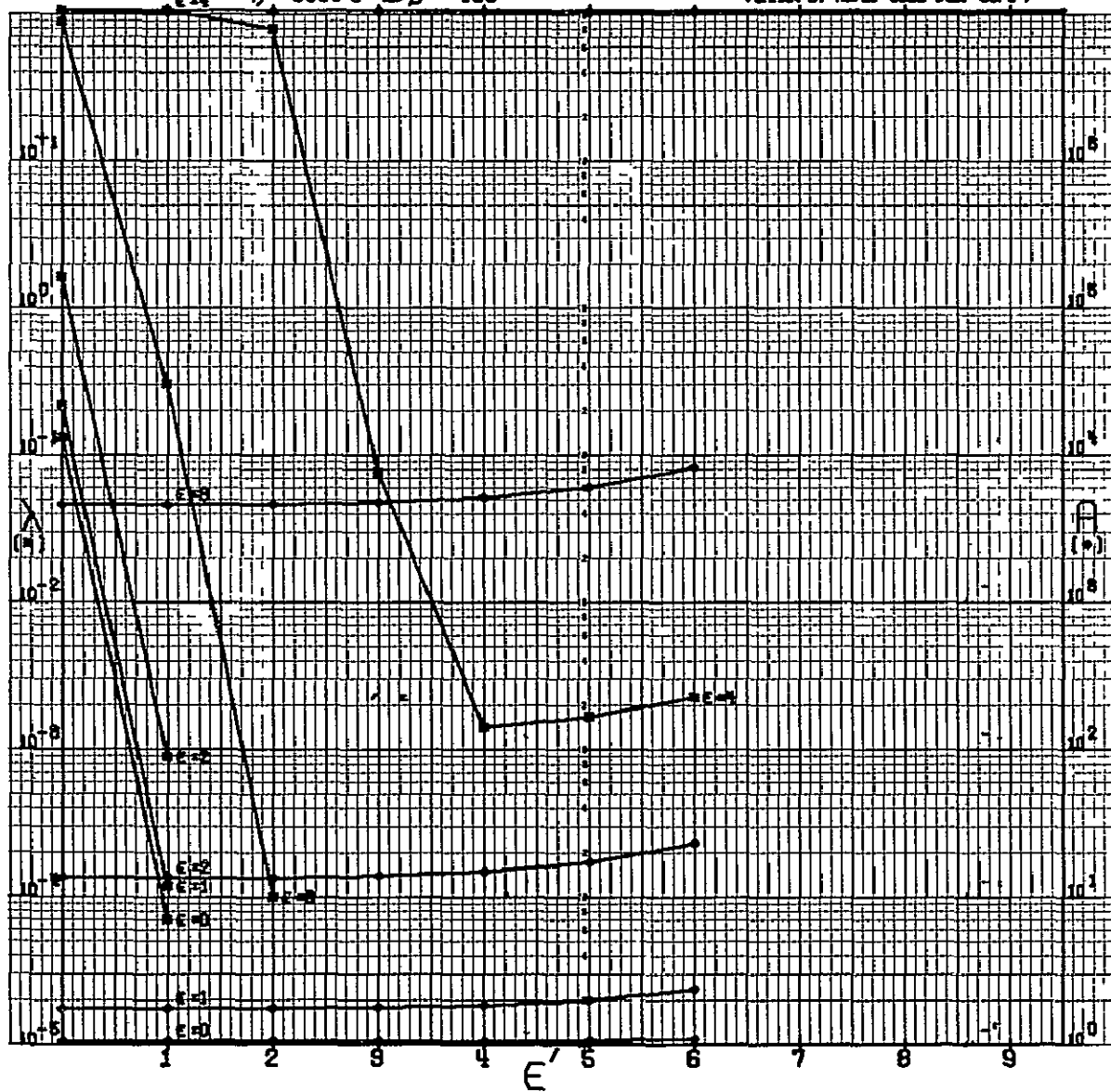


N=12

OSOE 110101100000
GSFO STANDARD

$\eta = 0.0001$ $\beta = 100$

(DRAWN BY ACPLS. OSOE 512. GSFO)

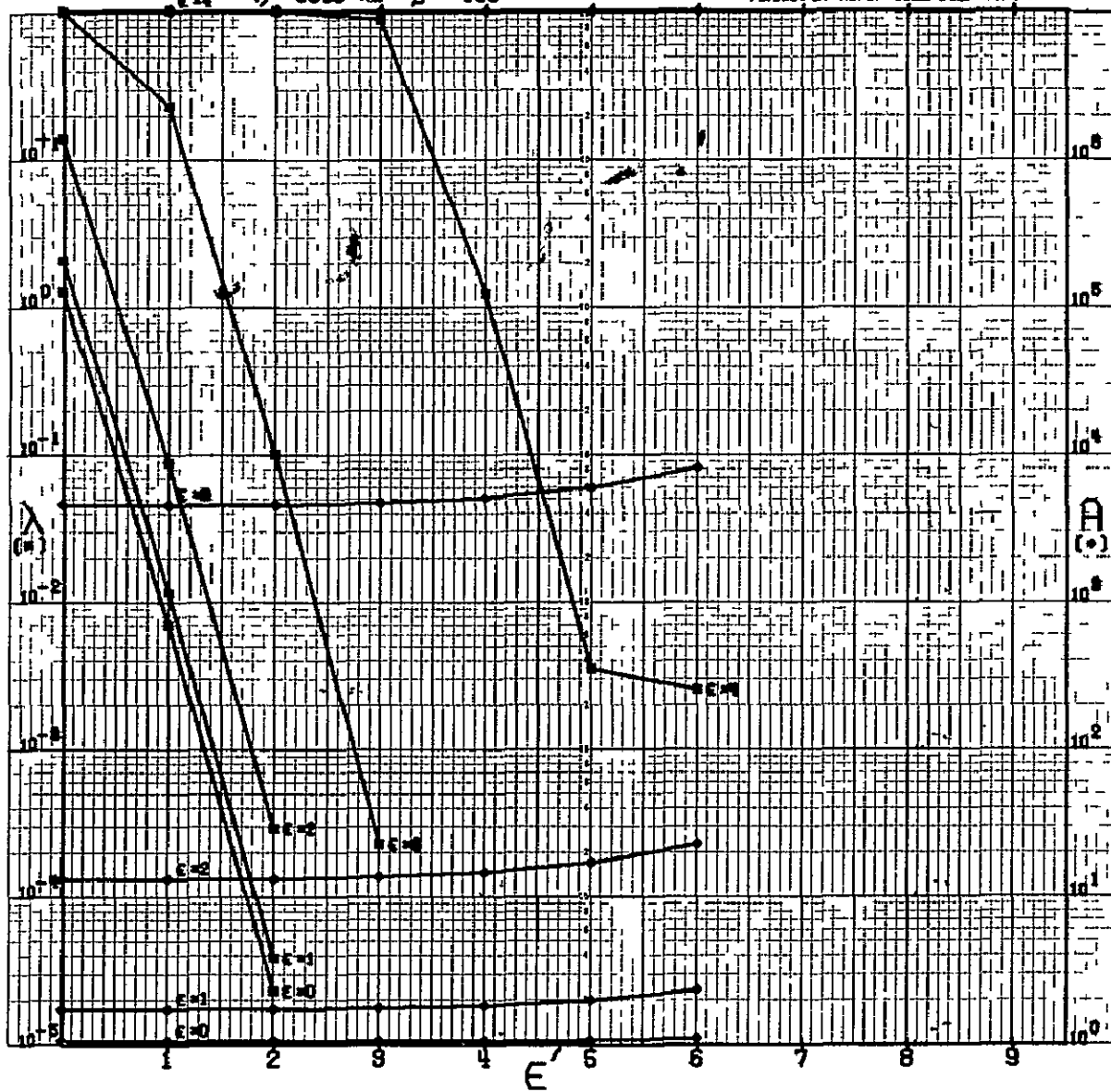


N=12

CODE 110101100000
GSPD STANDARD

$\epsilon = 4$ $\epsilon = 0.010$ $\epsilon = 100$

(DRAWN BY ROPS, CODE 592, GSPD)

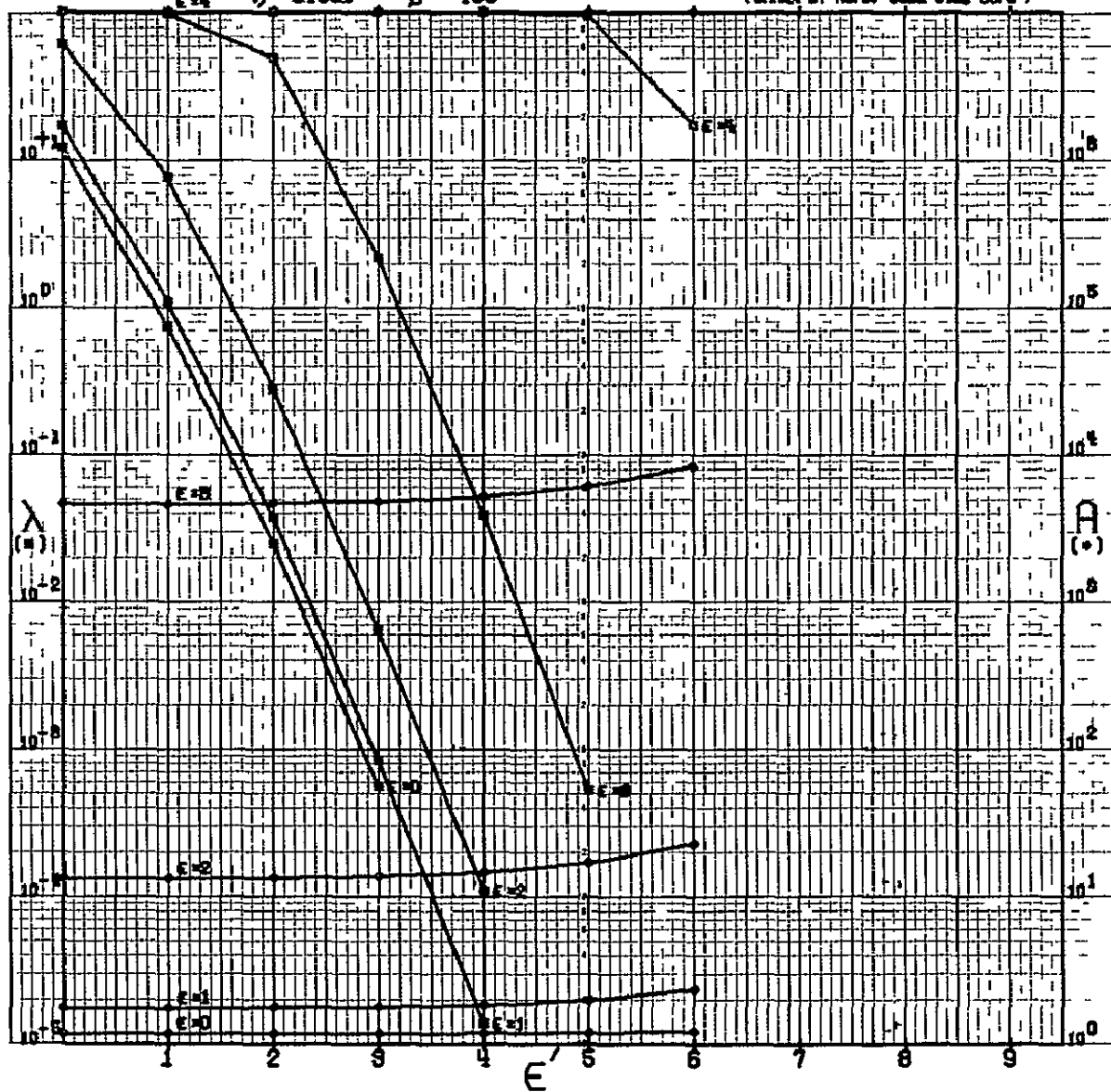


N=12

CODE 110101100000
GOFD STANDARD

$\eta = -0.100$ $\beta = 100$

(DRAWN BY ROPD, CODE 512, GOFD)

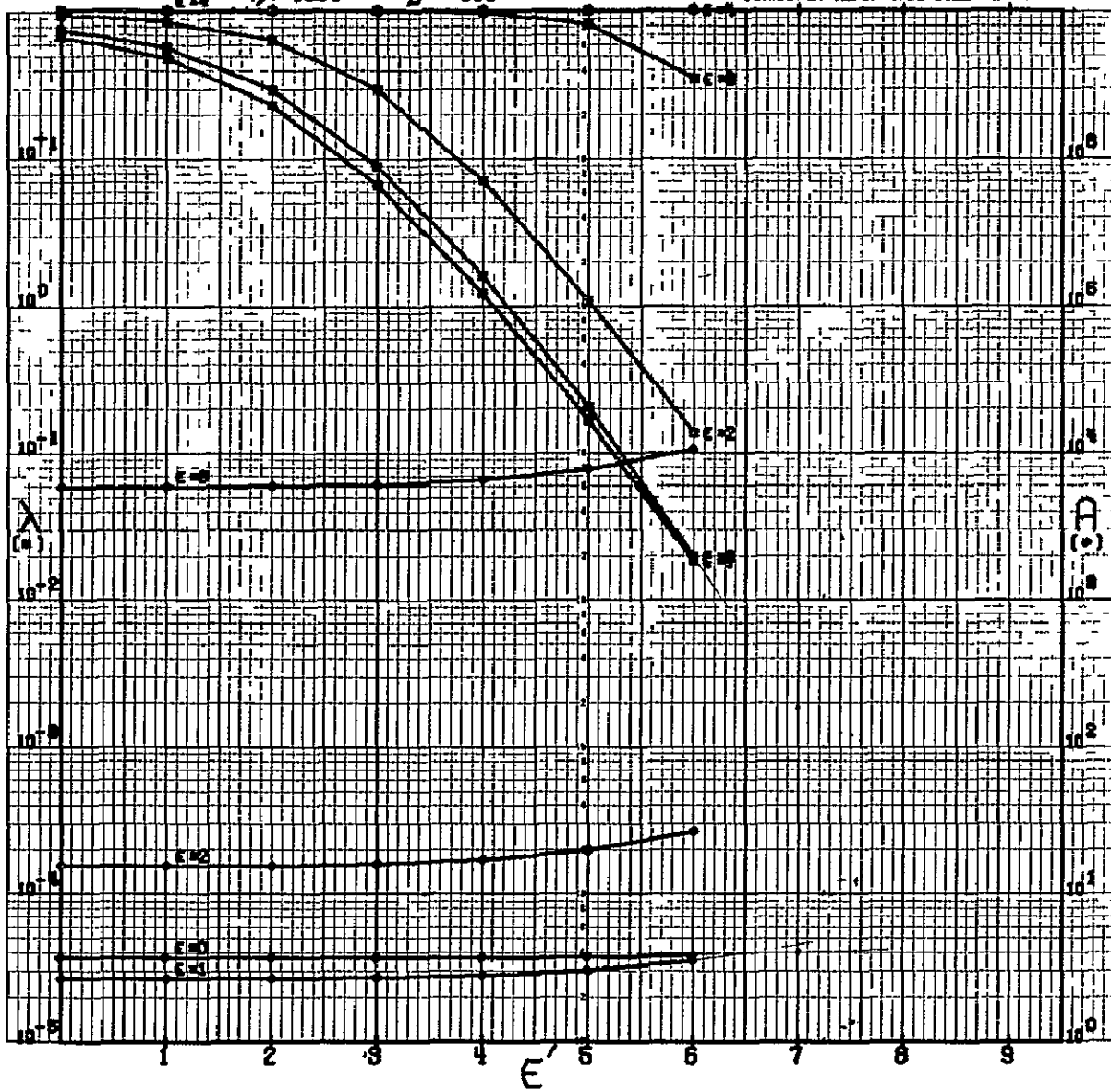


N=12

CODE 110101100000
GPO STANDARD

$\epsilon = 1$ $\eta = 1000$ $\beta = 100$

(DRAWN BY ROPG CODE 1102 GPO)

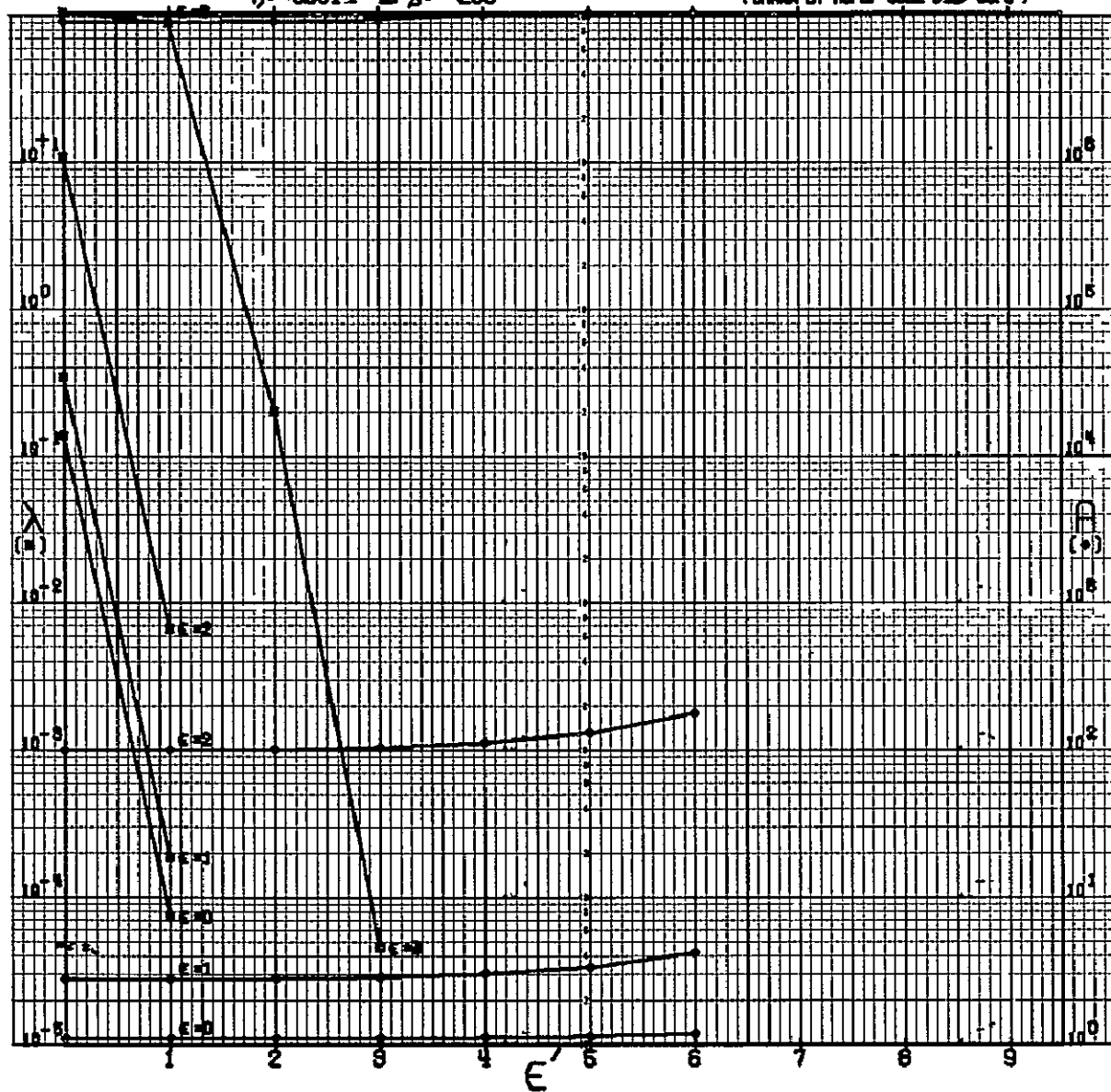


N = 12

CODE 110101100000
REFG STANDARD

$\eta = 0.001$ $\beta = 200$

(DRAWN BY REF. CODE 512-0001)



N=12

CODE 110101100000
SEFO STANDARD

$b = .0010$ - $\beta = 200$

(DRAWN BY ROPS CODE 512, GSP)

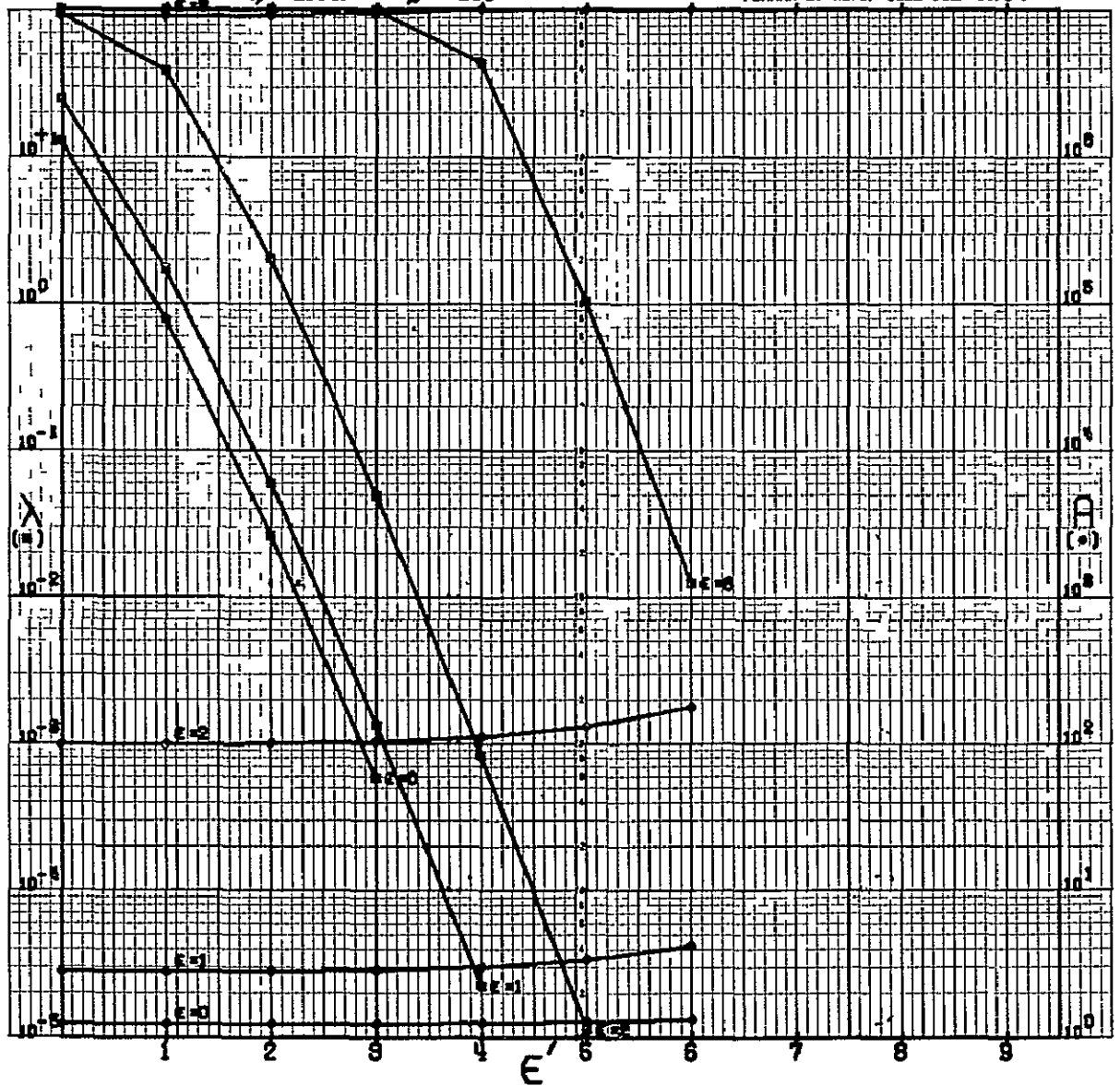


N=12

CODE 110101100000
GSPD STANDARD

$\eta = 0.100$ $\beta = 200$

(DRAWN BY ROFG, CODE 5162, GSPD)

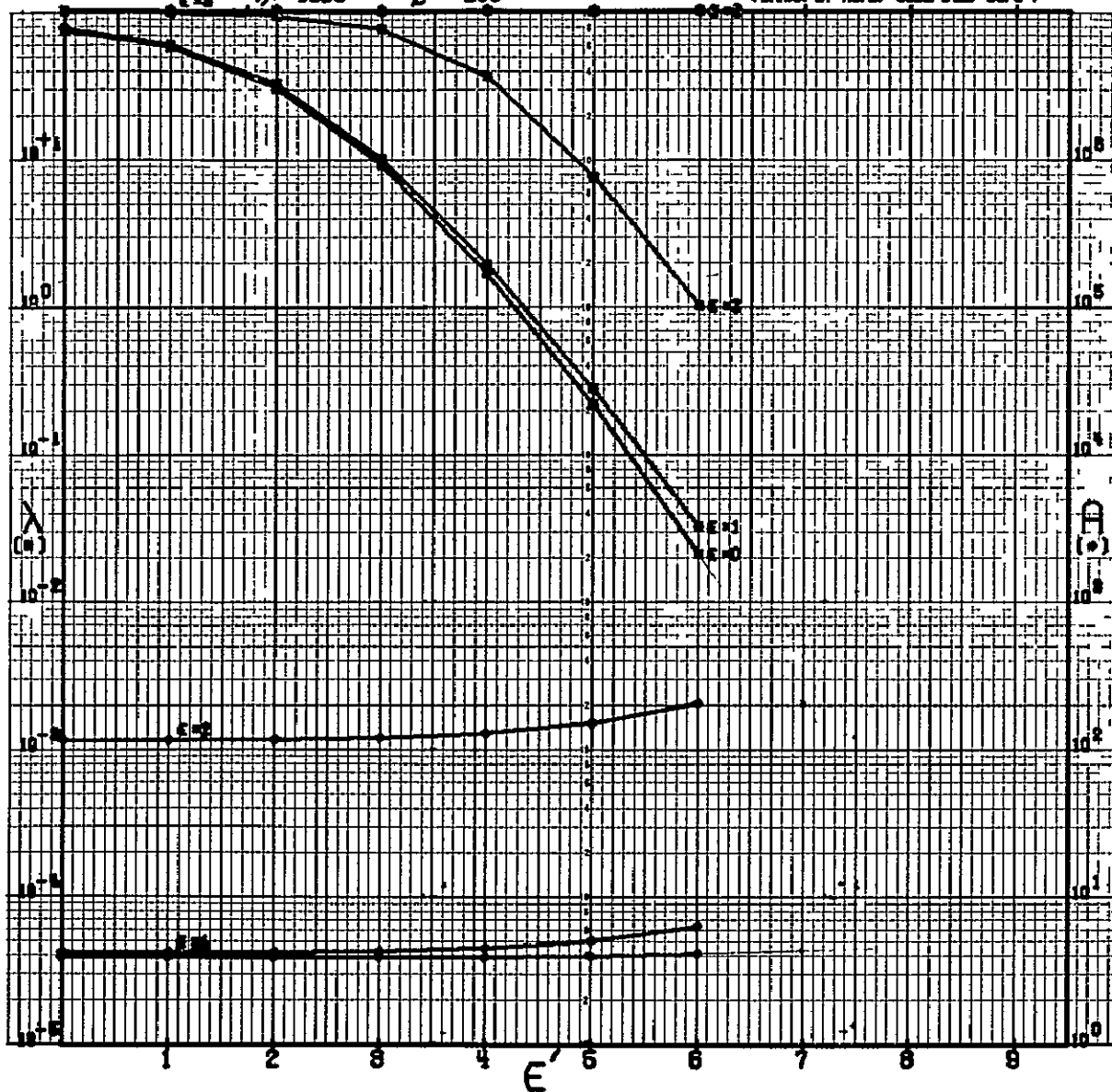


N=12

CODE 110101100000
CODE STANDARD

$\epsilon = 3$ $\eta = 1000$ $\beta = 200$

(DRAWN BY ACPB, CODE 582, DFTD)

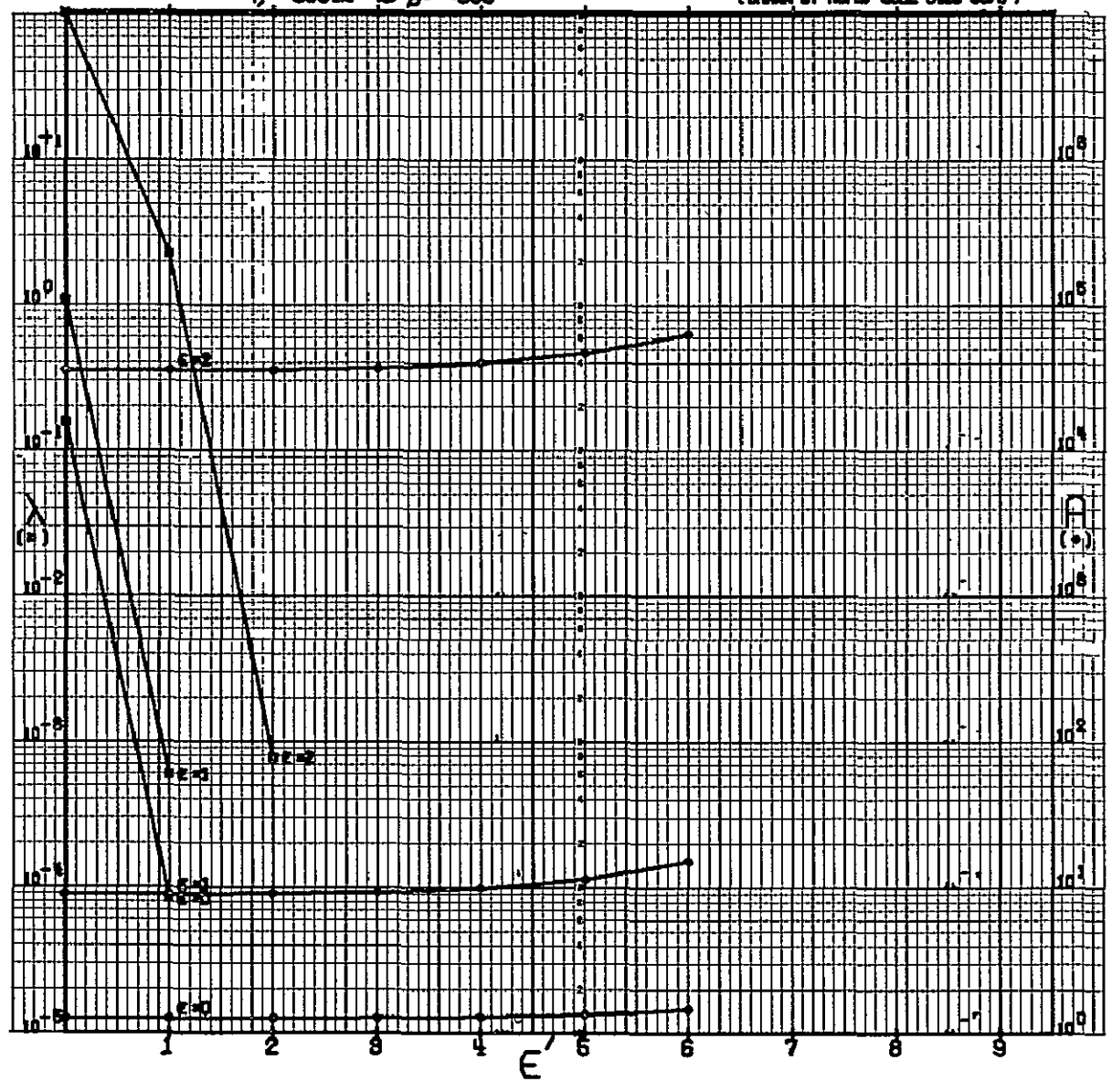


N=12

CODE 110101100000
REF: STANDARD

$\eta = 0.001$ $\beta = 500$

(DRAWN BY ROPE, CODE 512, 507)

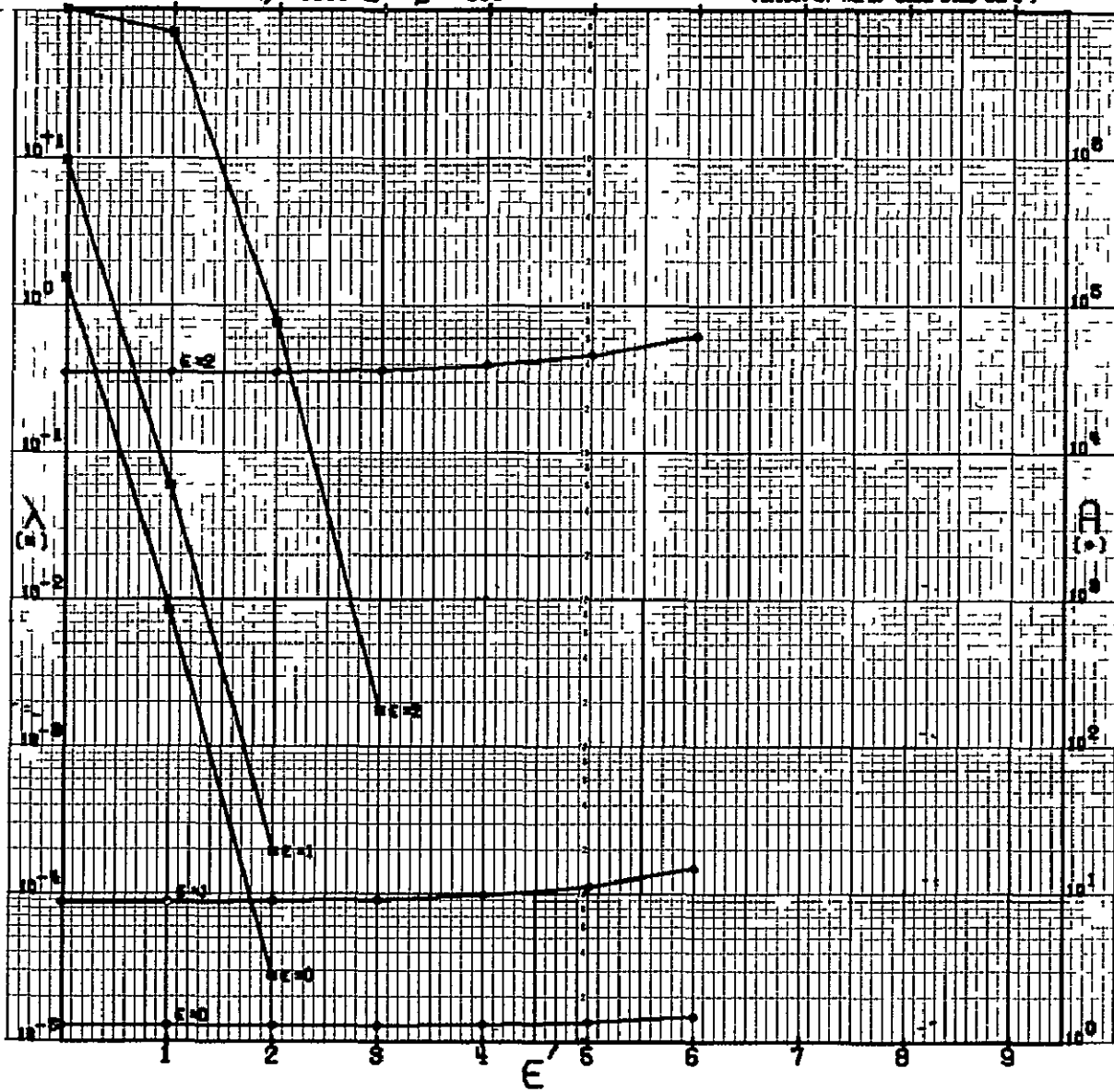


N*12

ORDE 110101106000
GSPG STANDARD

$\eta = 0.010$ $\beta = 500$

(DRAWN BY ROPB. ORDE 512. GSPG)

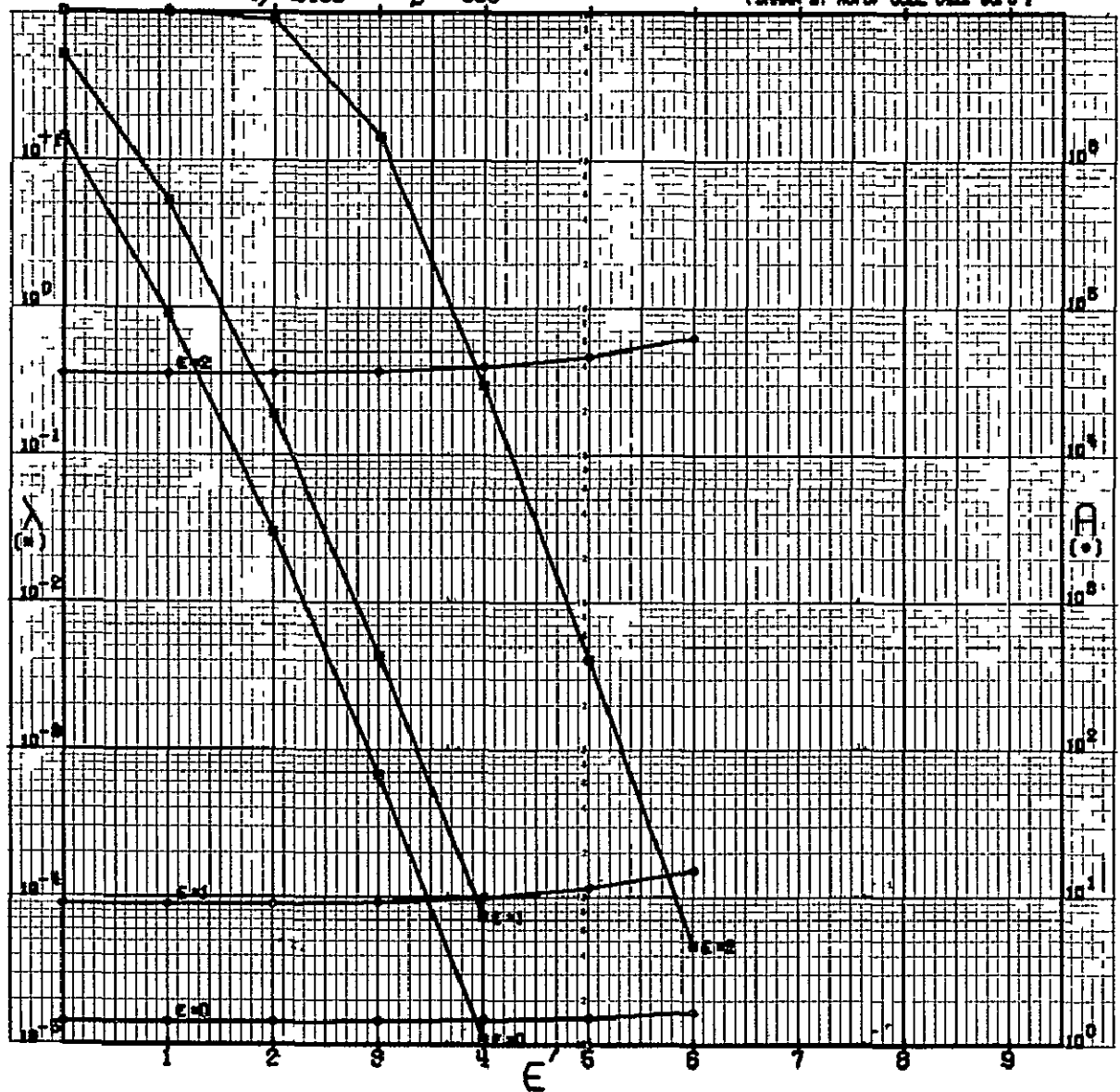


N=12

CODE 110101100000
GPO STANDARD

$\eta = 0.100$ $\beta = 500$

(GRAPH BY AFPS, CODE 592, GPO)

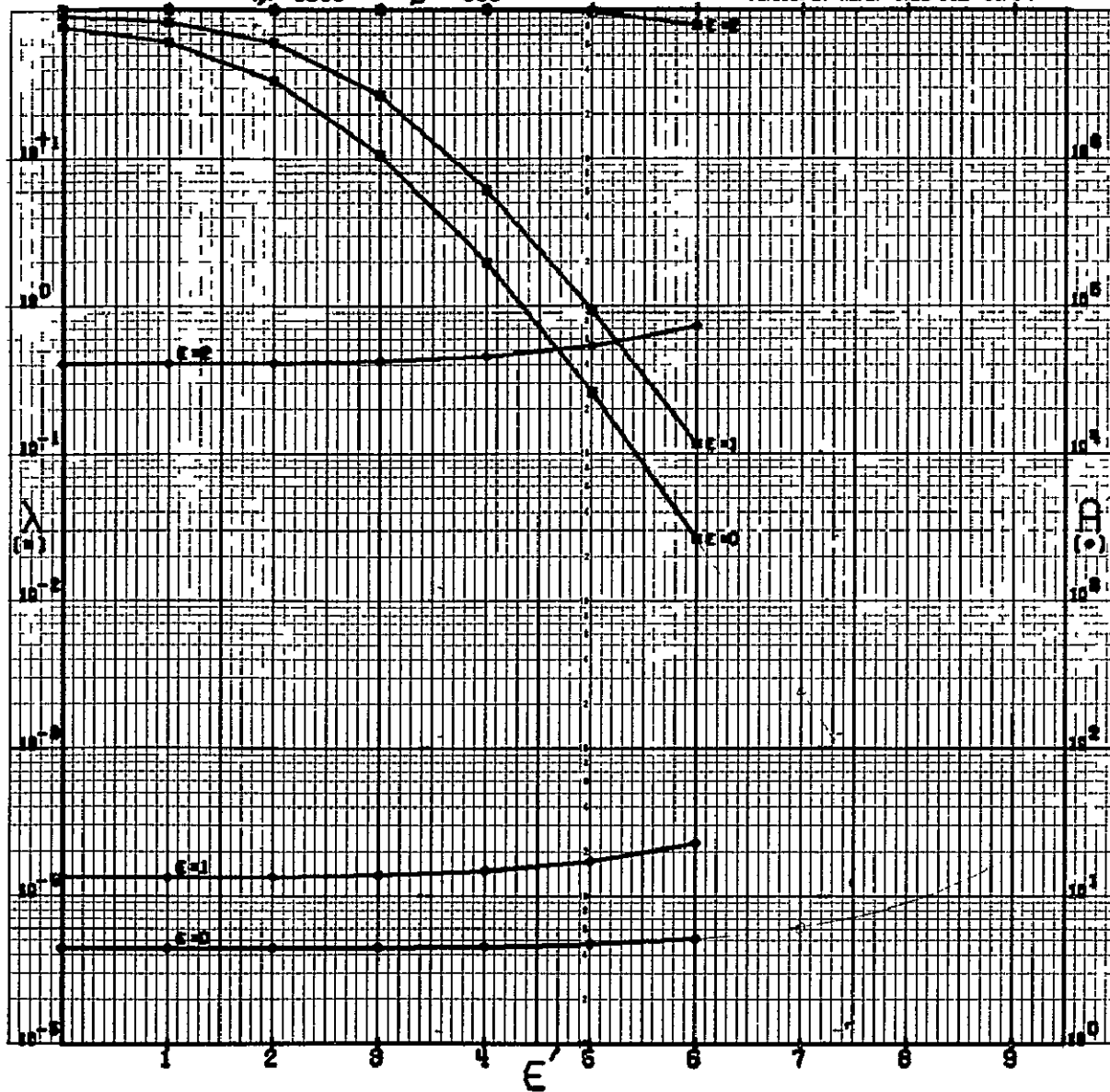


N = 12

ORDE 110101105000
GFC STANDARD

$\eta = 1000$ $\beta = 500$

(ORIGIN BY RCPL, ORDE 052- 0070)

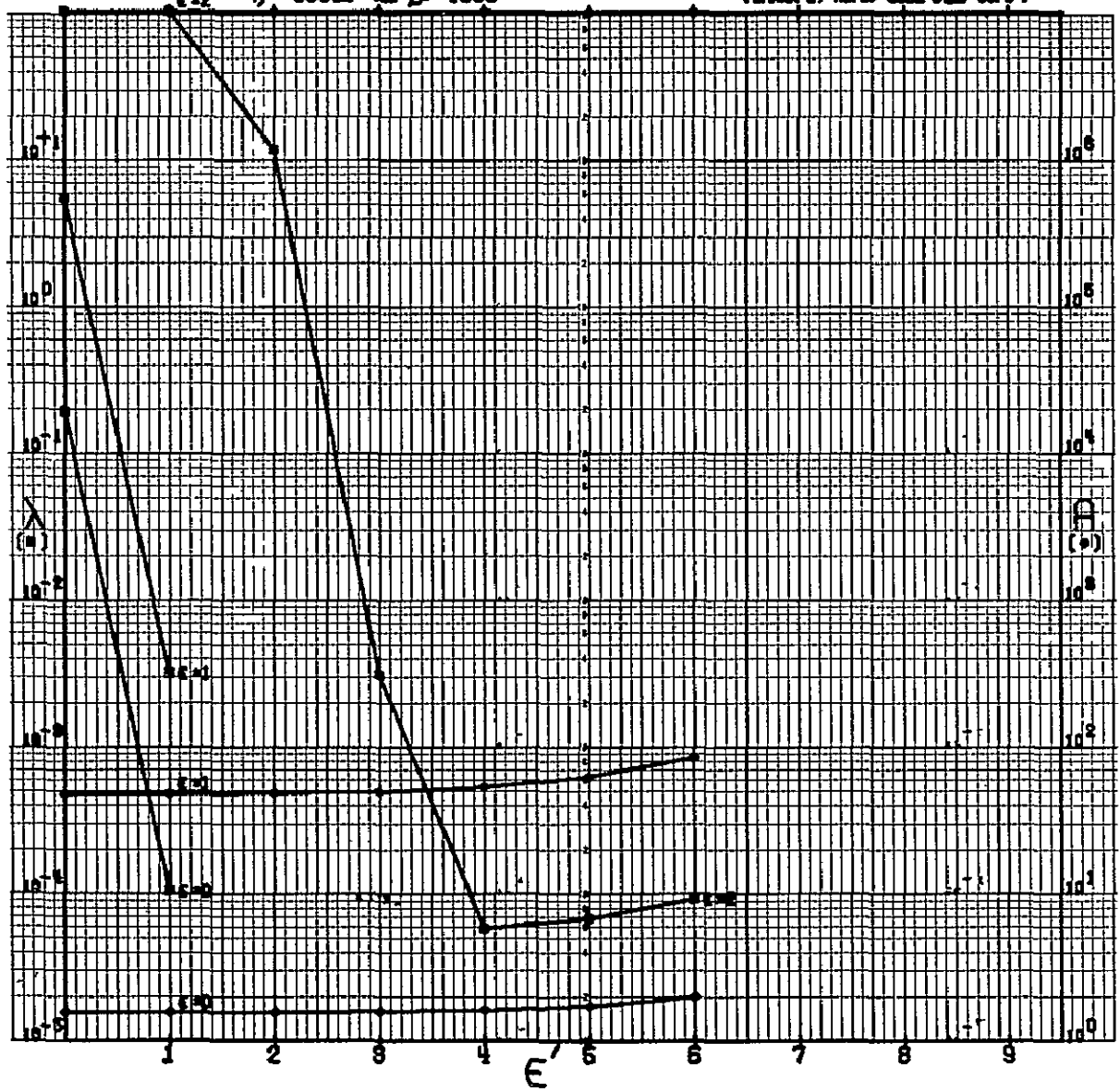


$\nu = 12$

CODE 110101100000
GFD STANDARD

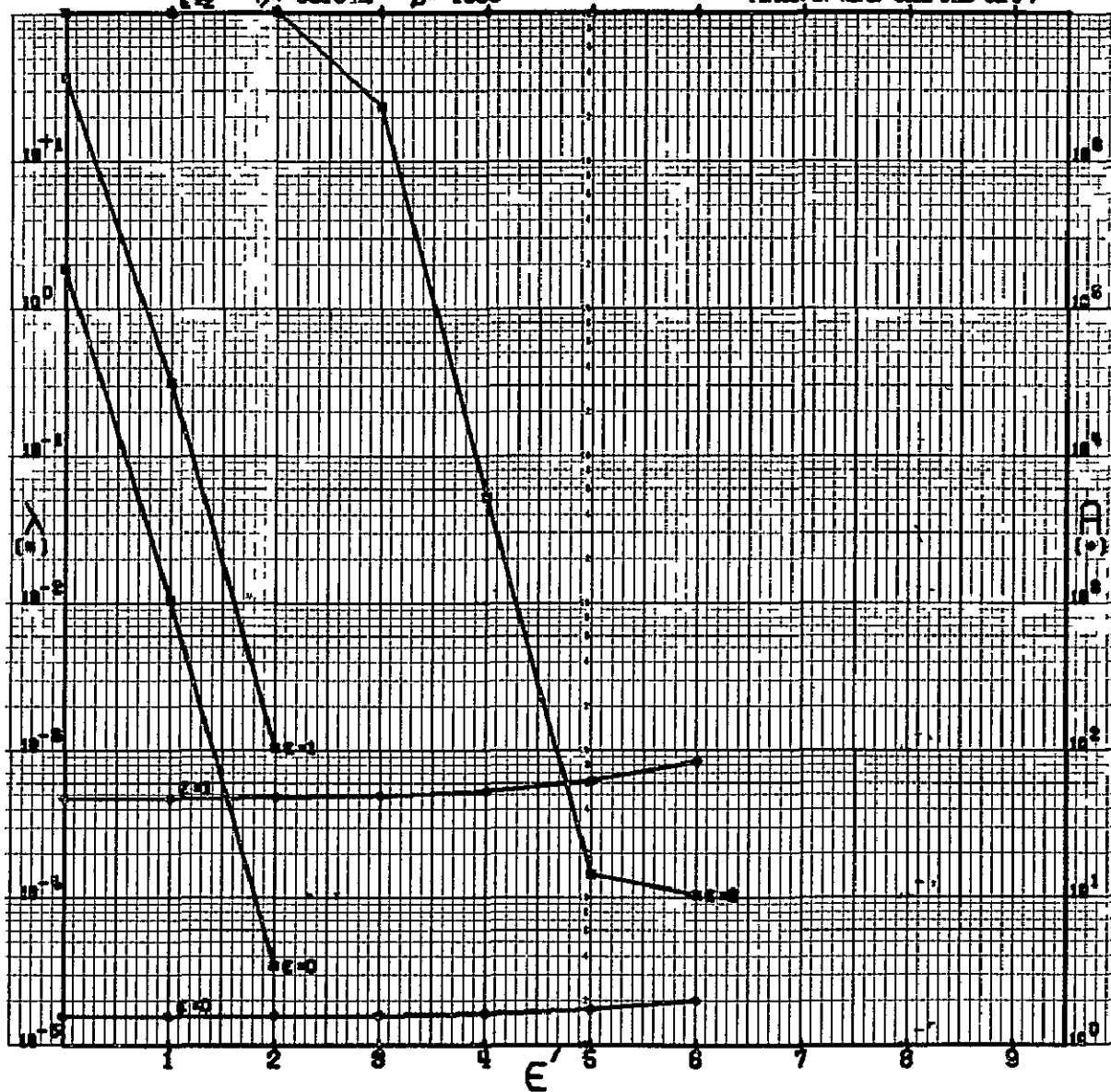
$\eta = 0.001$ $\mu = 1000$

(DRAWN BY ACPL CODE 512 GFD)



CODE 11010110500
GFC STANDARD

(DRAWN BY ROPS, OGLE AND GALT)



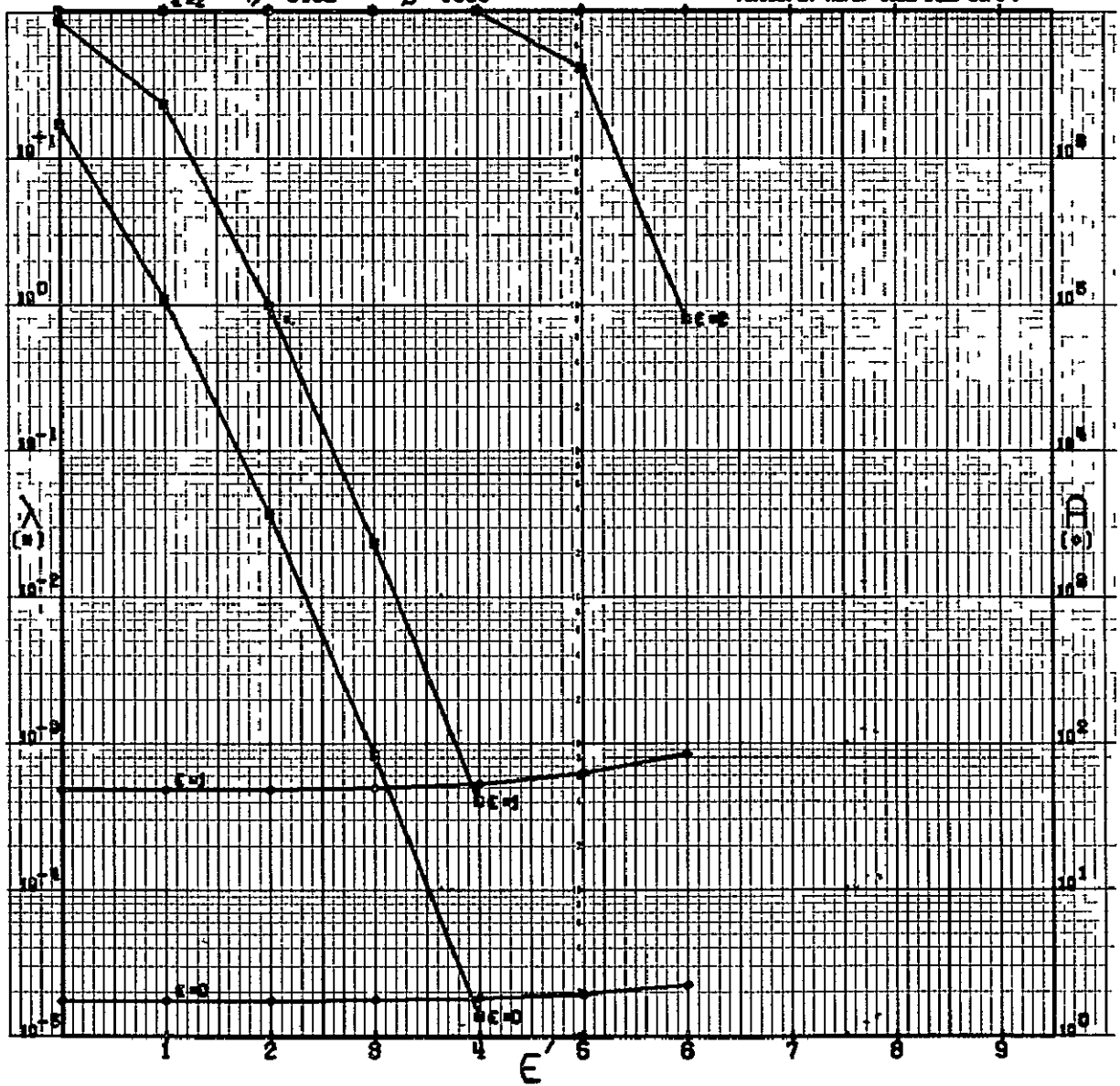
A-132

N=12

CODE 110101100080
GSPC STANDARD

$\eta = 0.100$ $\beta = 1000$

(DRAWN BY REF: CODE 192, GSPC)

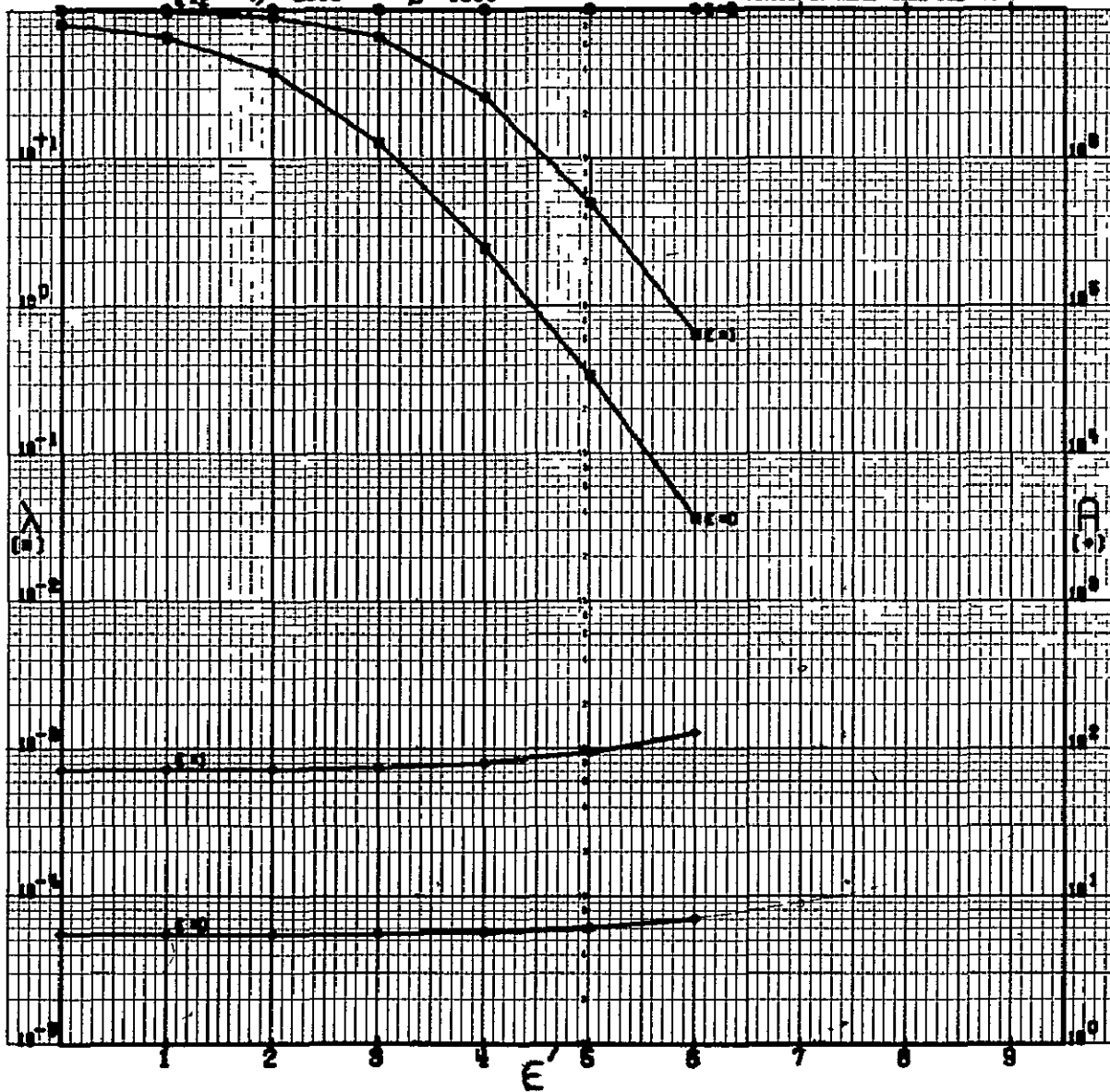


N=12

CODE 110301100000
SMPG STANDARD

$\gamma = 1000$; $\beta = 1000$

(GRAPH BY NAME CODE USE SMPG)

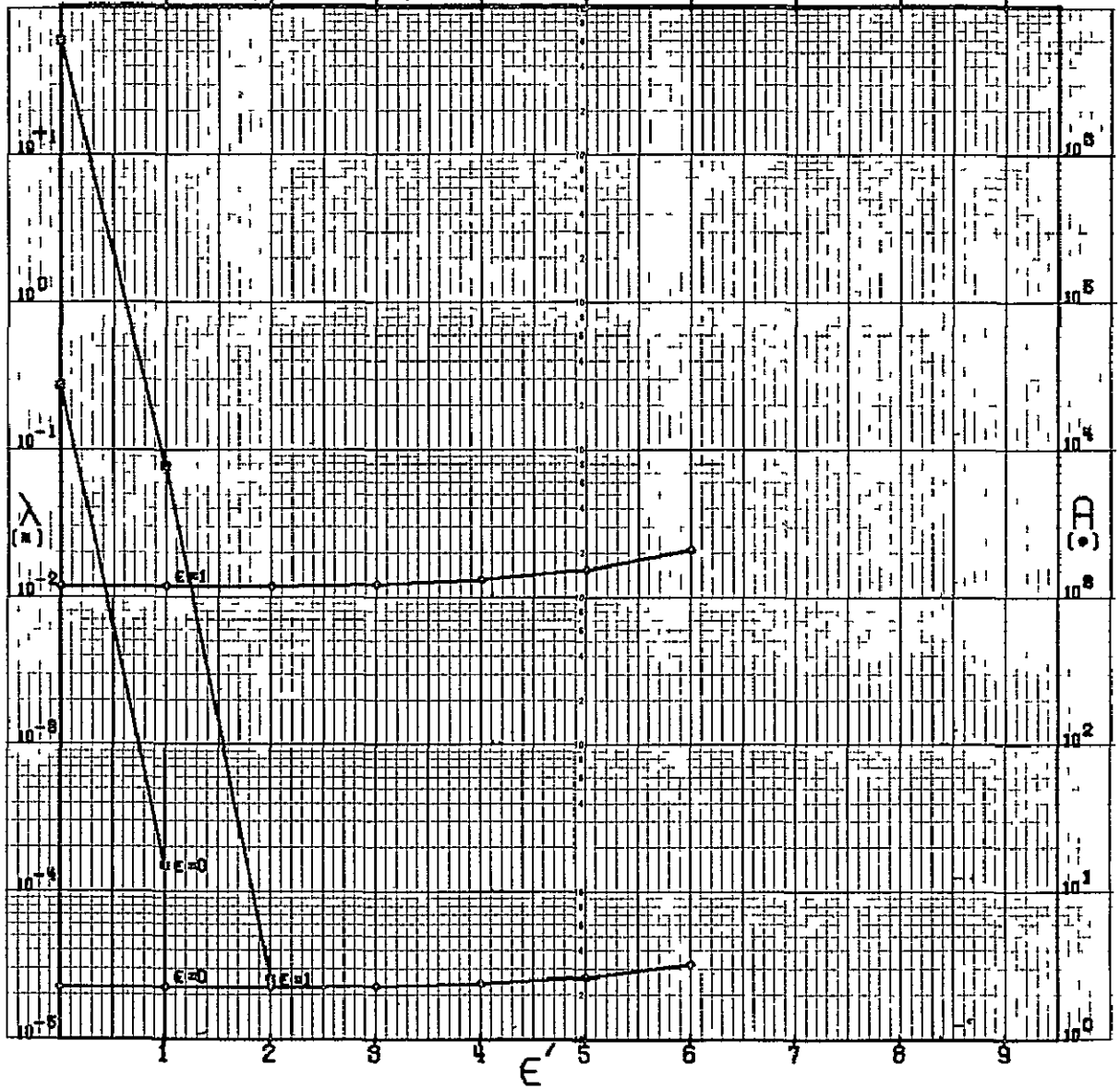


N=12

CODE 110101100000
SCFD STANDARD

$\eta = 0.001$ $\beta = 2000$

(OBSERVED BY REF. CODE 562-6067)

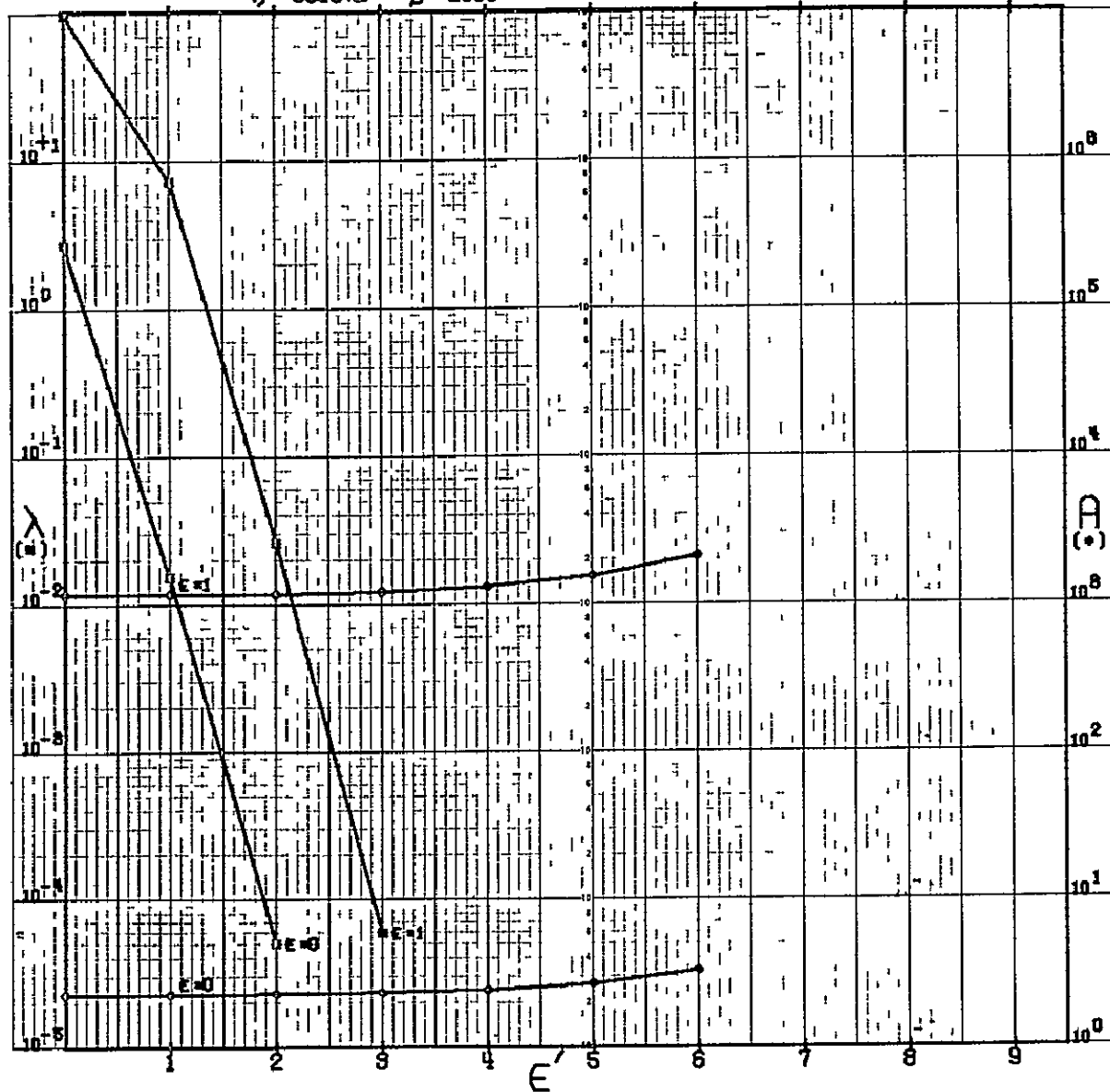


12

CODE 110101100000
GSPC STANDARD

$\eta = 0.010$ $\beta = 2000$

(DRAWN BY ROPS, CODE 592, GSPC)

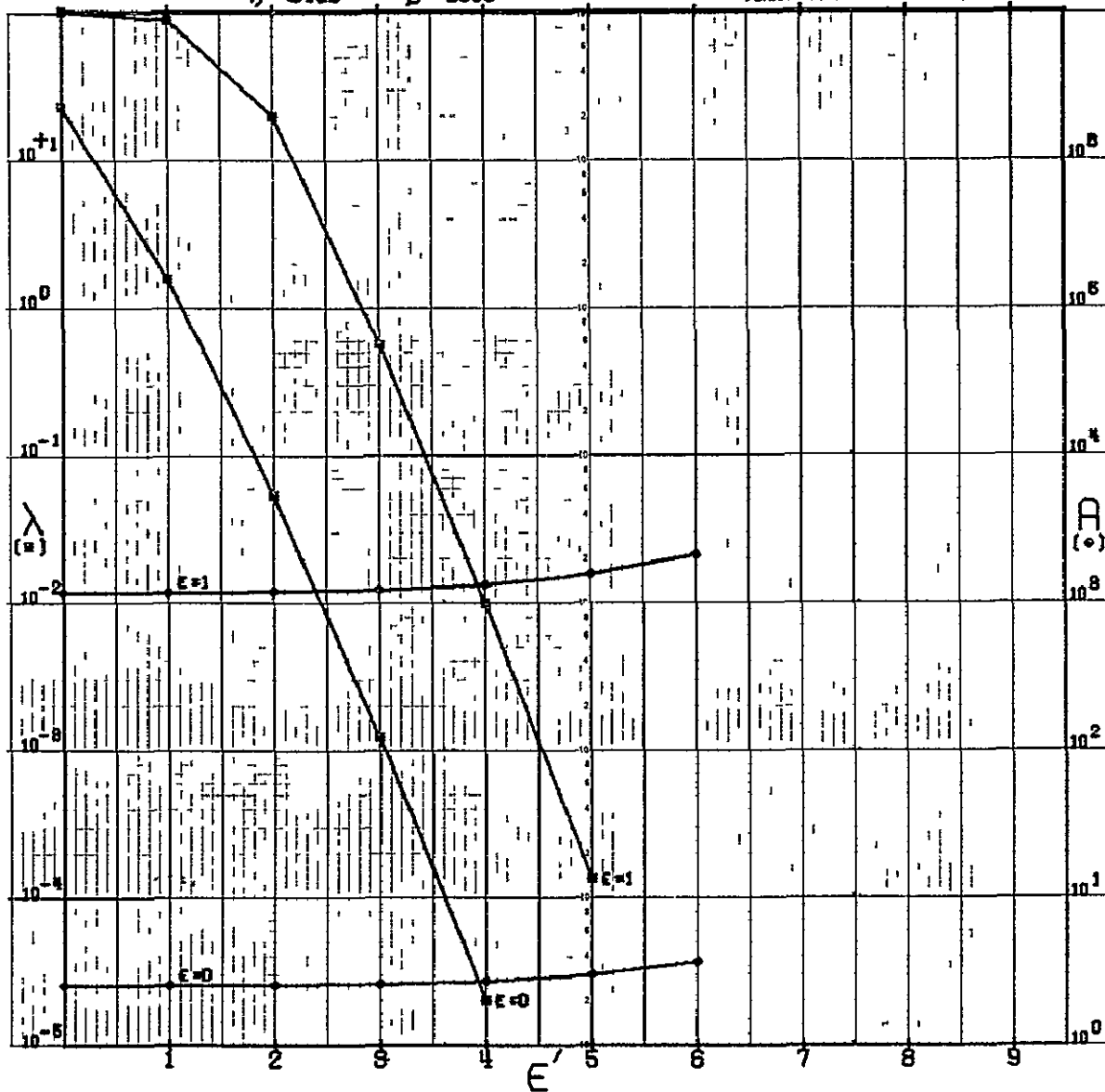


N=12

CODE 110101100000
GDFC STANDARD

$\eta = 0.100$ $\beta = 2000$

(DRAWN BY REFS. CODE 592, GDFC)

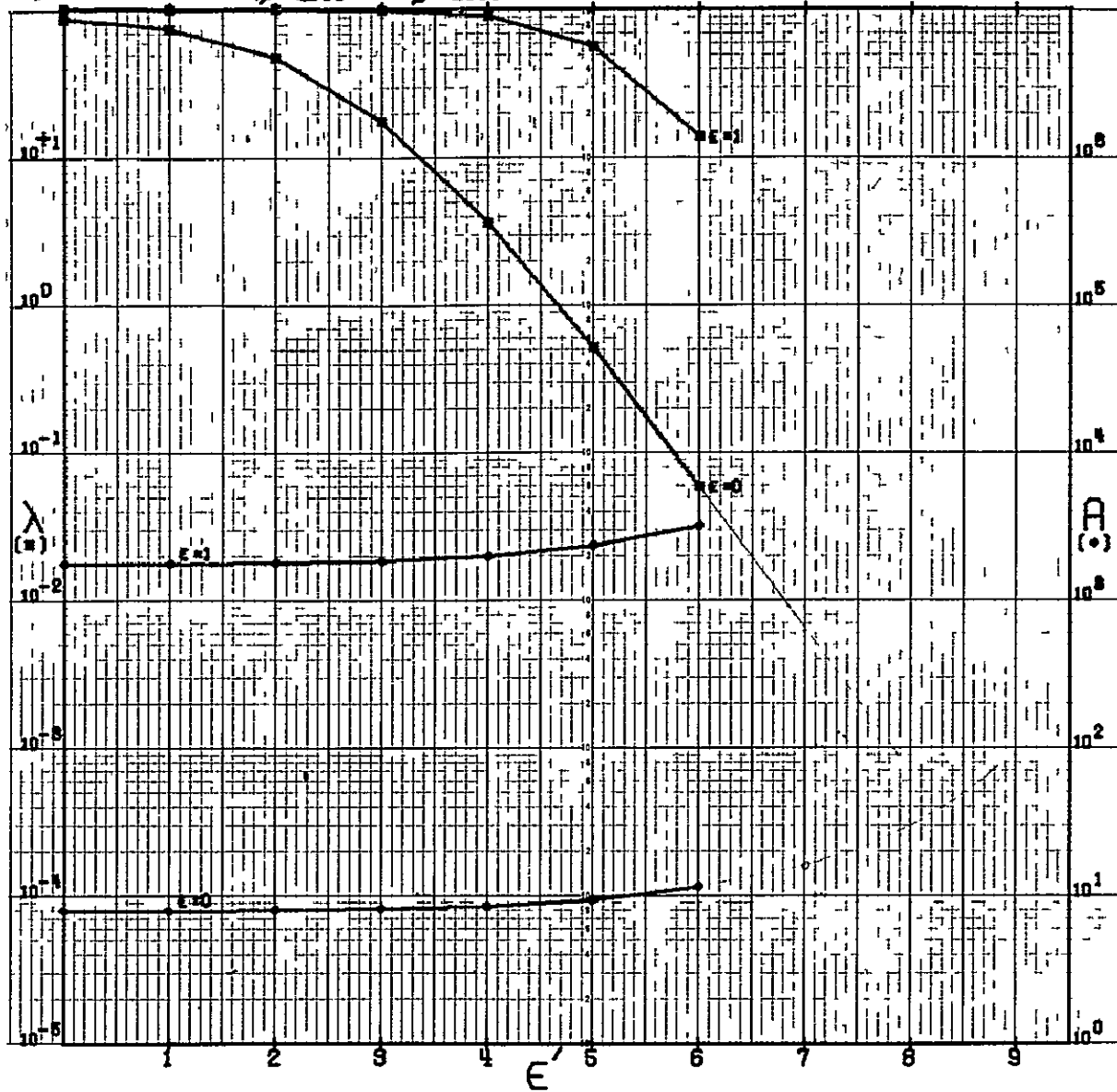


N = 12

CODE 110103100000
GFD STANDARD

$\eta = 1000$ $\beta = 2000$

(DRAWN BY ROPE, CODE 512, GFD)

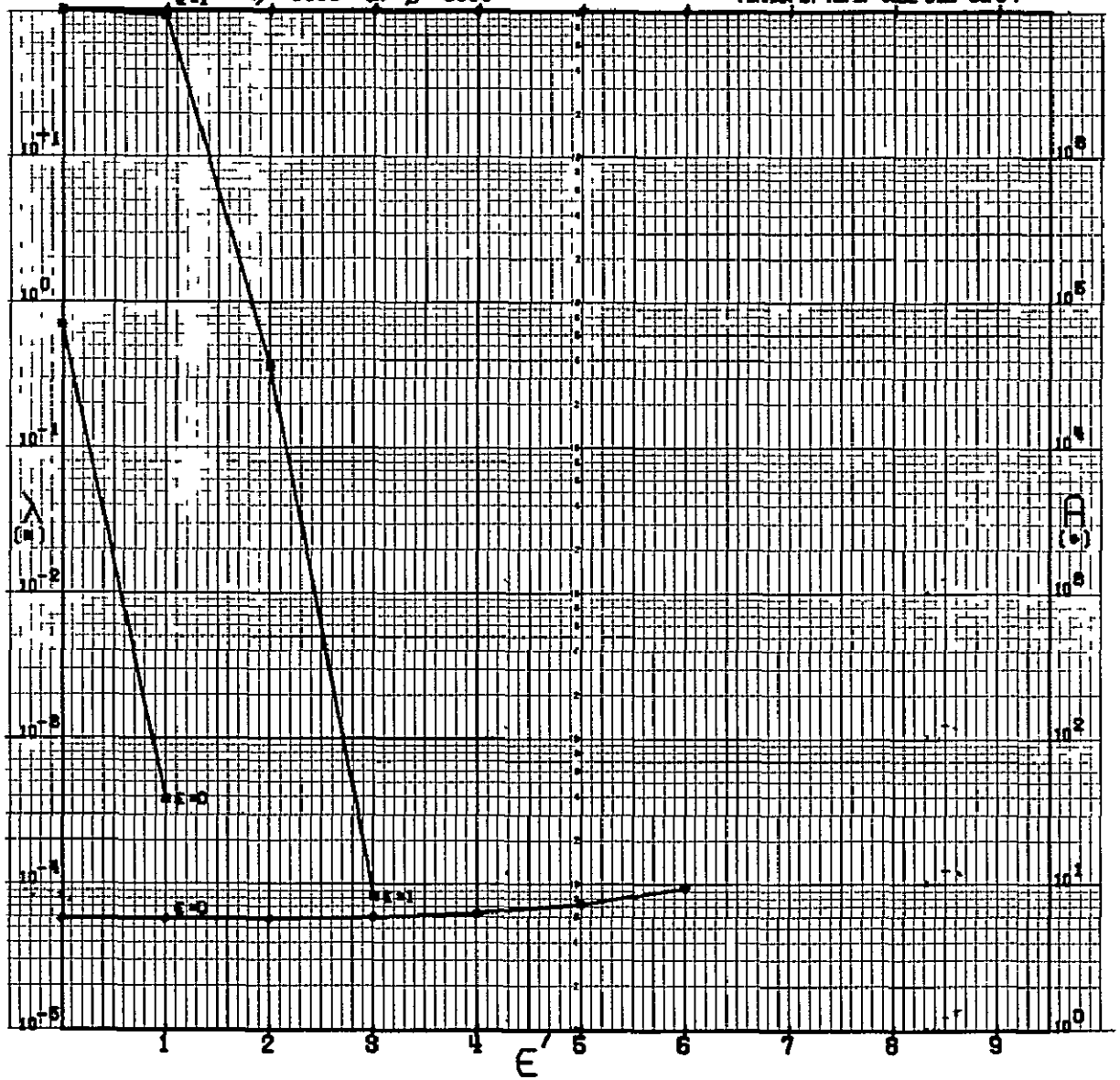


N=12

CODE 110101100000
GDFD STANDARD

$\epsilon = 1$ $\eta = 0.0001$ $\beta = 5000$

(DRAWN BY ROPS, CODE 512, GDFD)



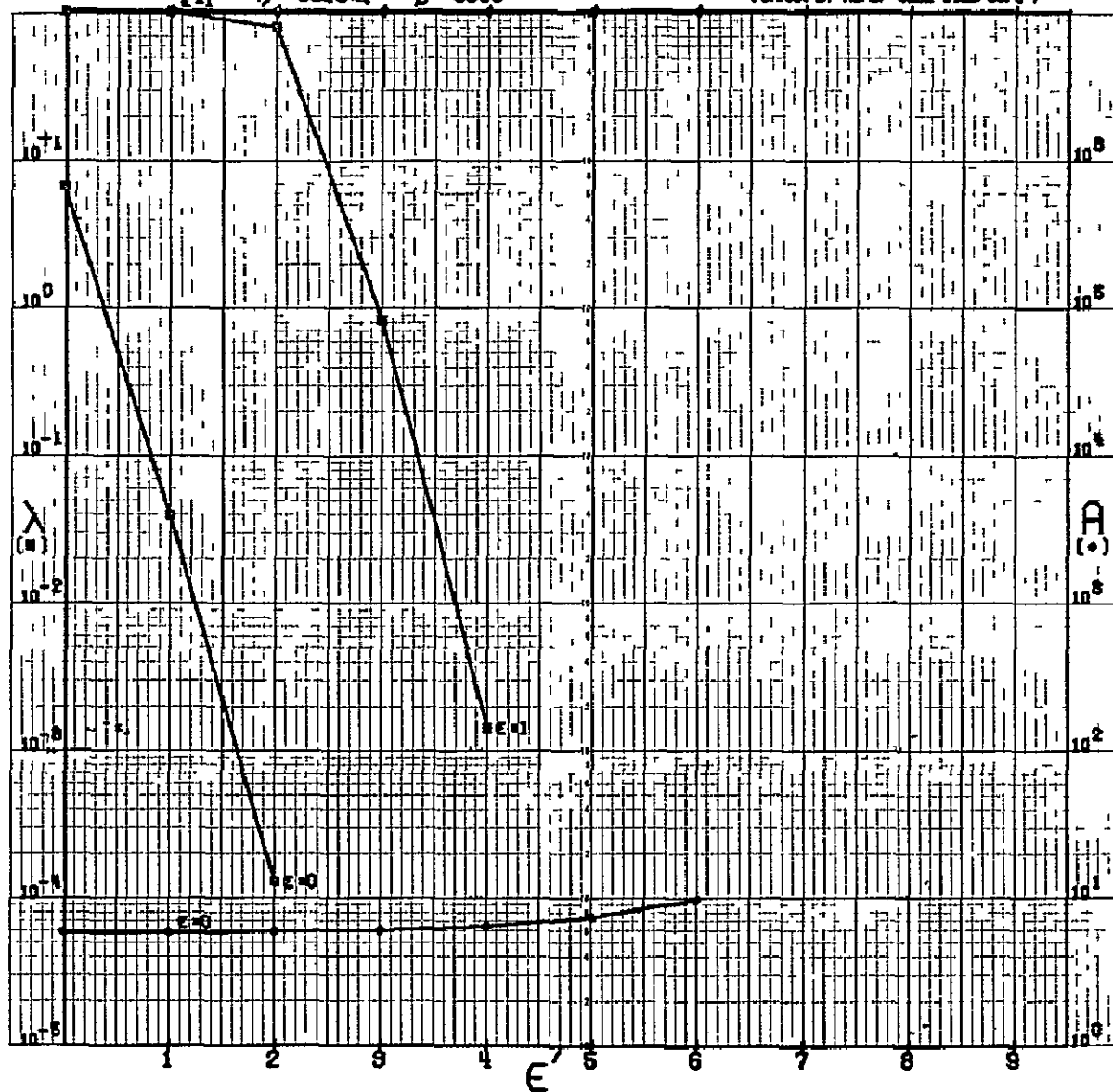
N=12

CODE 110101100000

CSFD STANDARD

$\eta = -0.010$ $\beta = 5000$

(DRAWN BY ROPE, CODE 192-0570)



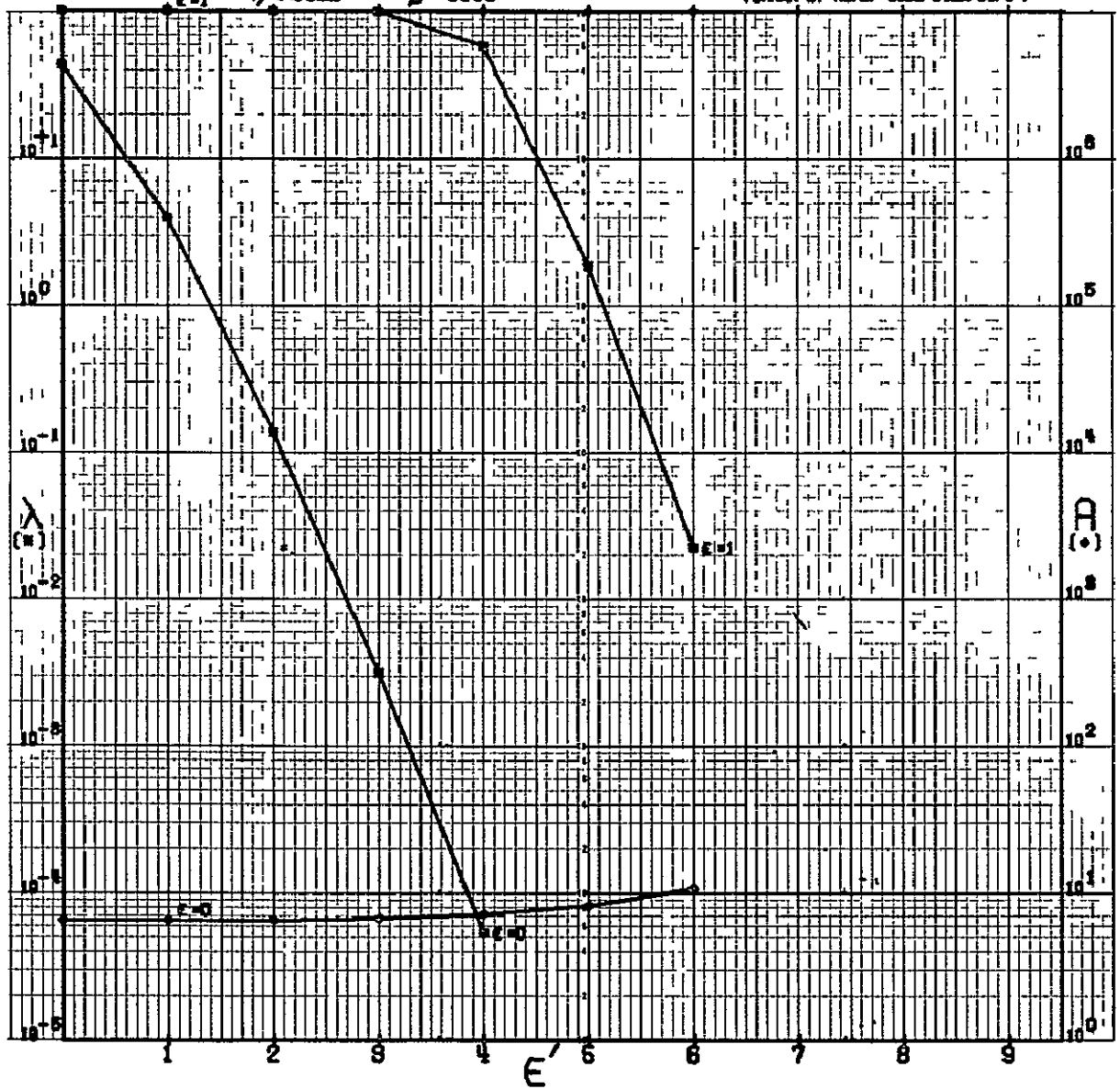
N=12

CODE 110101100000

SRFD STANDARD

$\eta = 0.100$ $\beta = 5000$

(DRAWN BY RCPB CODE 592-5870)



N = 12

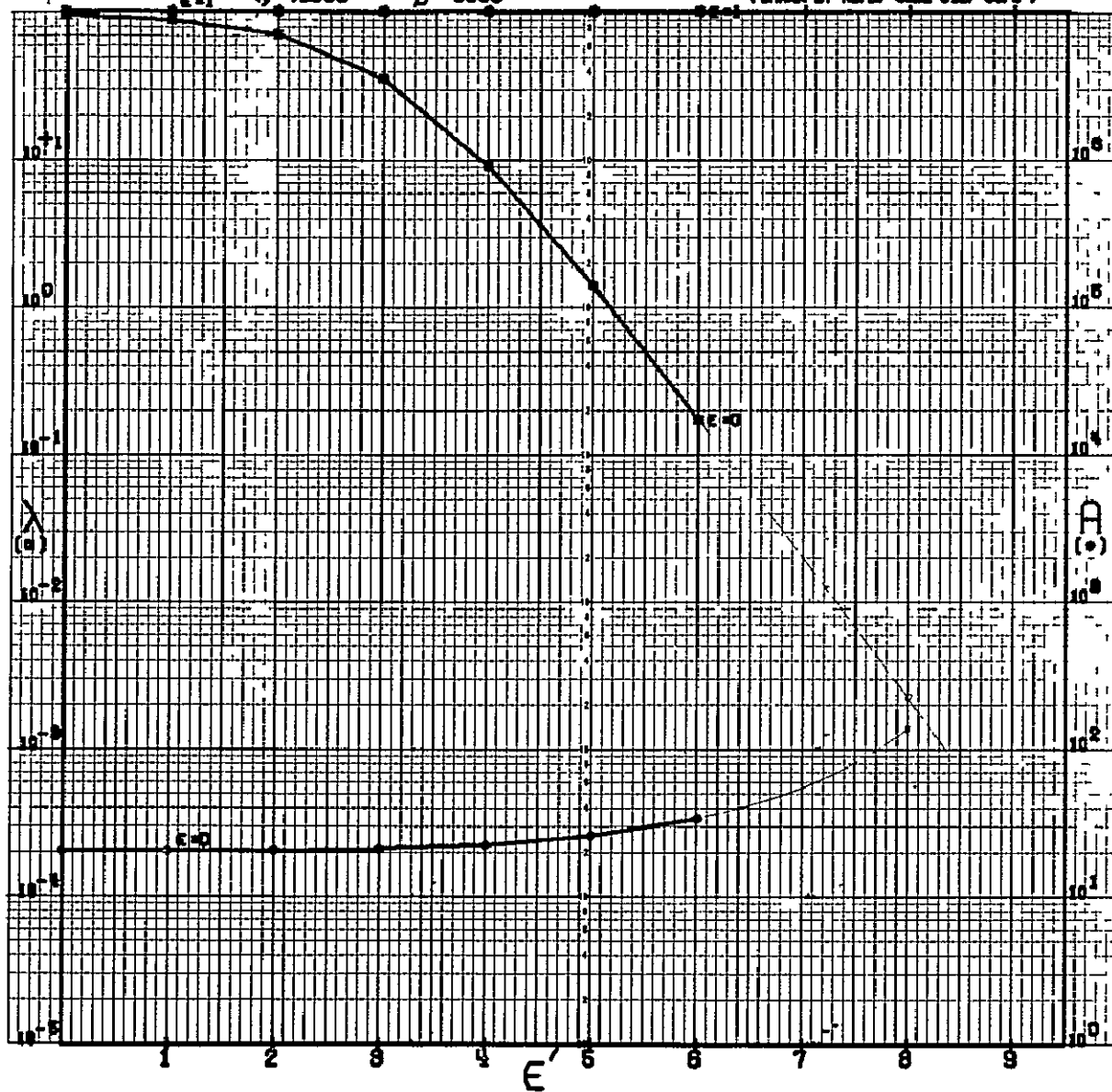
CODE 110103180000

SAFO STANDARD

$\eta = 1009$

$\beta = 5000$

(DRAWN BY RCPB. CODE 512-0870)

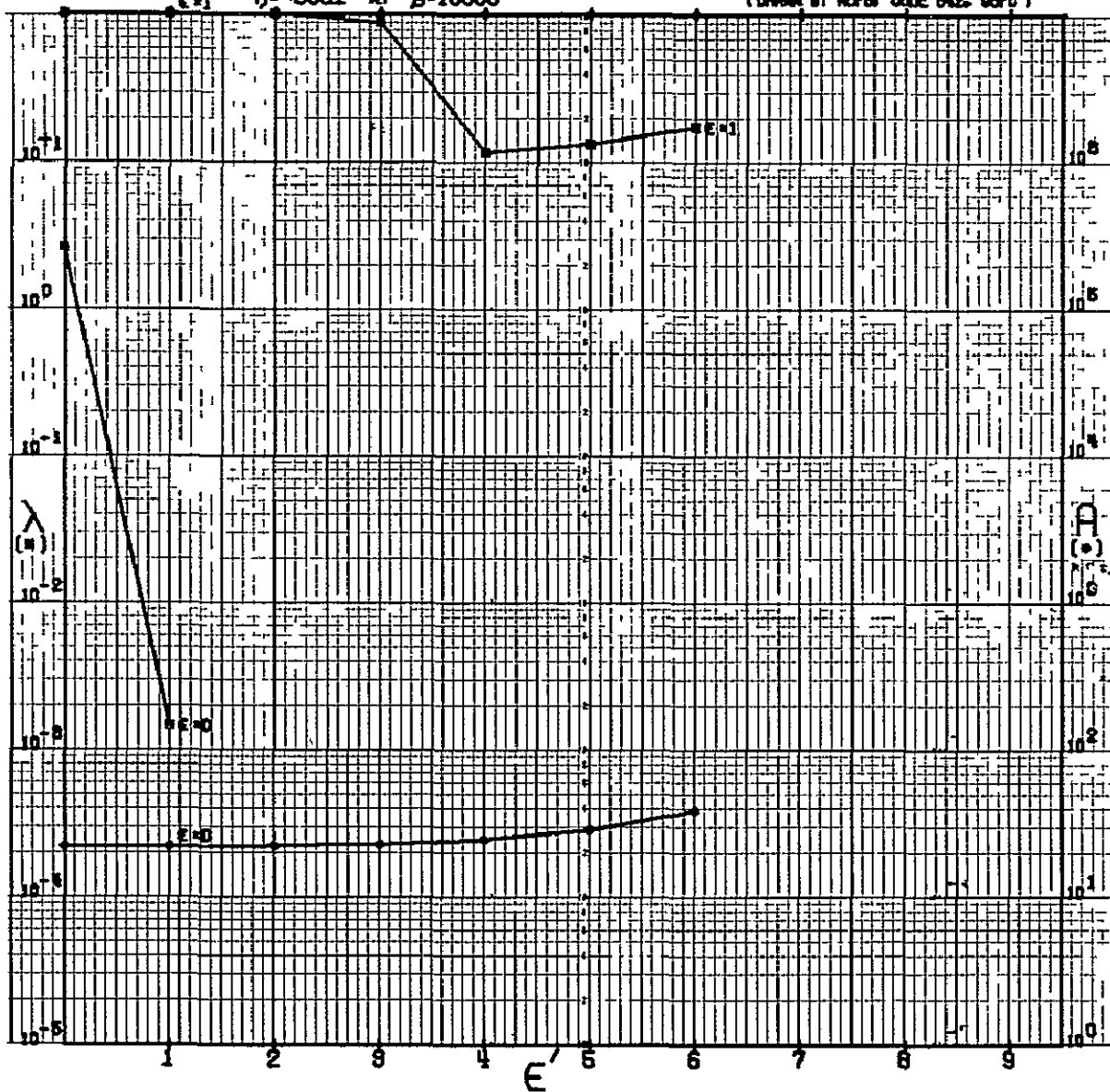


N=12

CODE 110103100000
GFC STANDARD

$\eta = 0.0001$ $\beta = 10000$

(DRAWN BY NCFB CODE 582- GFC)



N=12

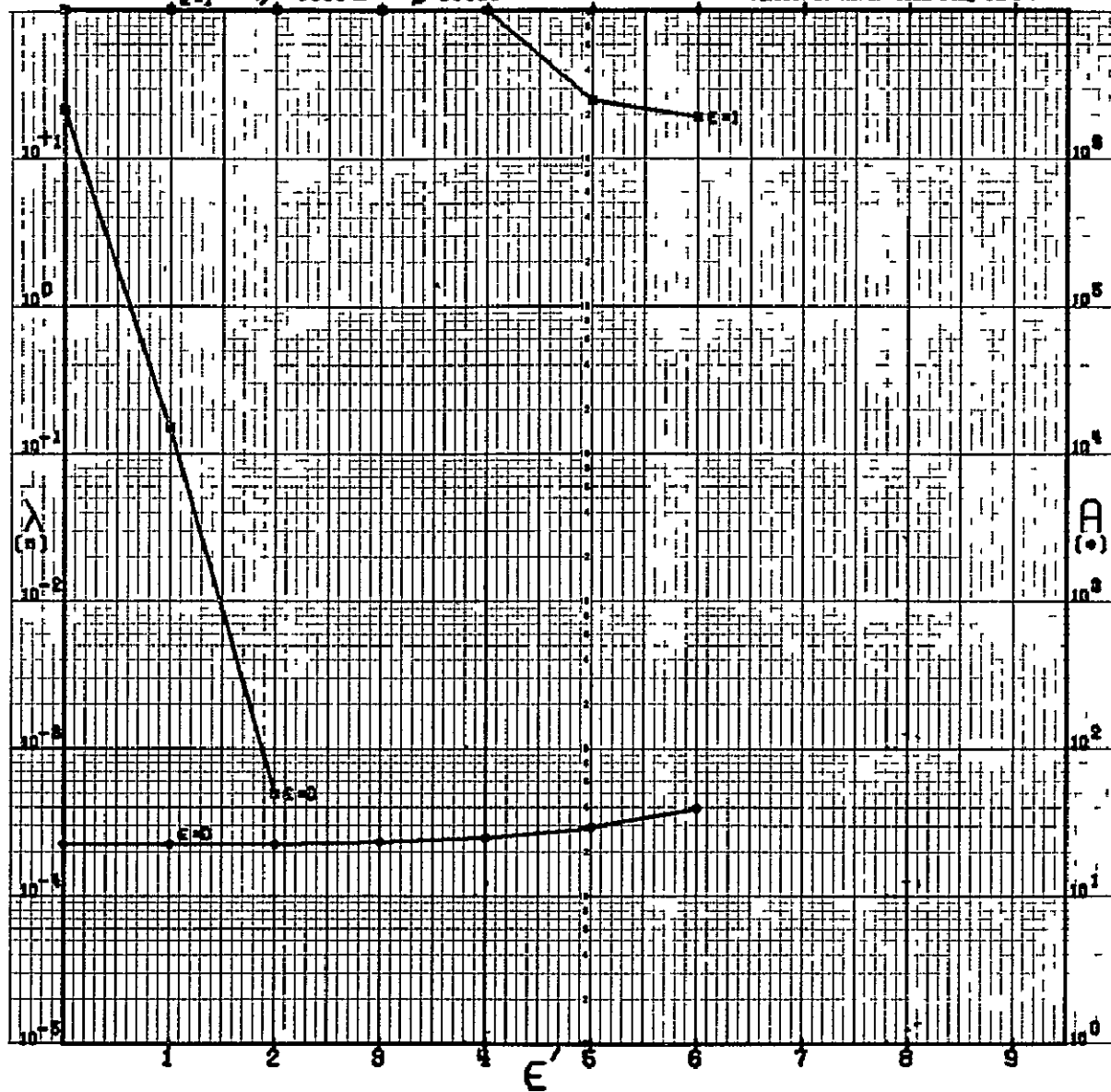
CODE 110101100000
GSPC STANDARD

$\epsilon=1$

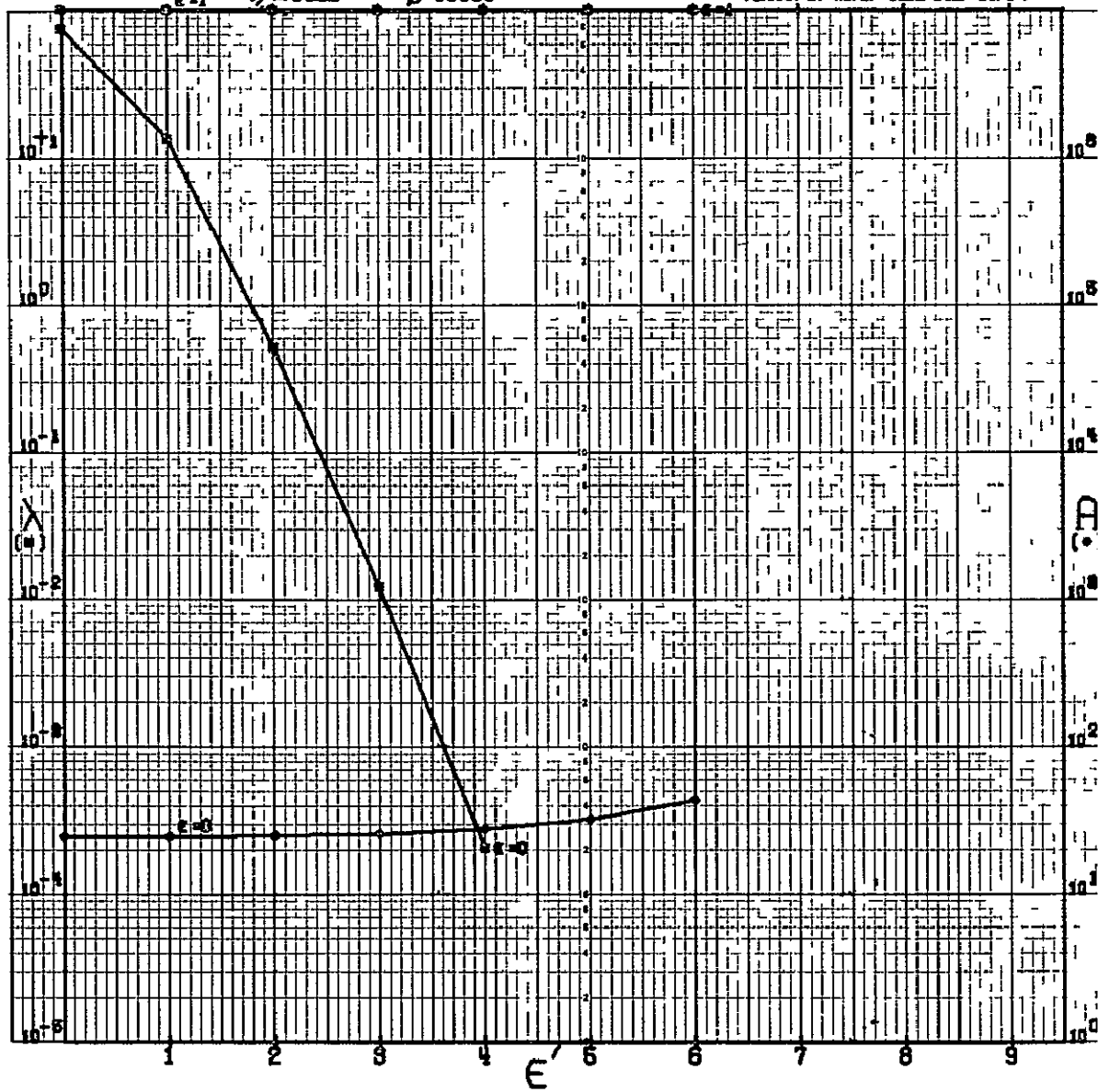
$\eta=0.0010$

$\beta=10000$

(DRAWN BY ROPG, CODE 582, GSPC 1)



N*12 CODE 110101100000
 GFTO STANDARD $\beta = 10000$ (DRAWN BY ROPS CODE 552- GFTO)



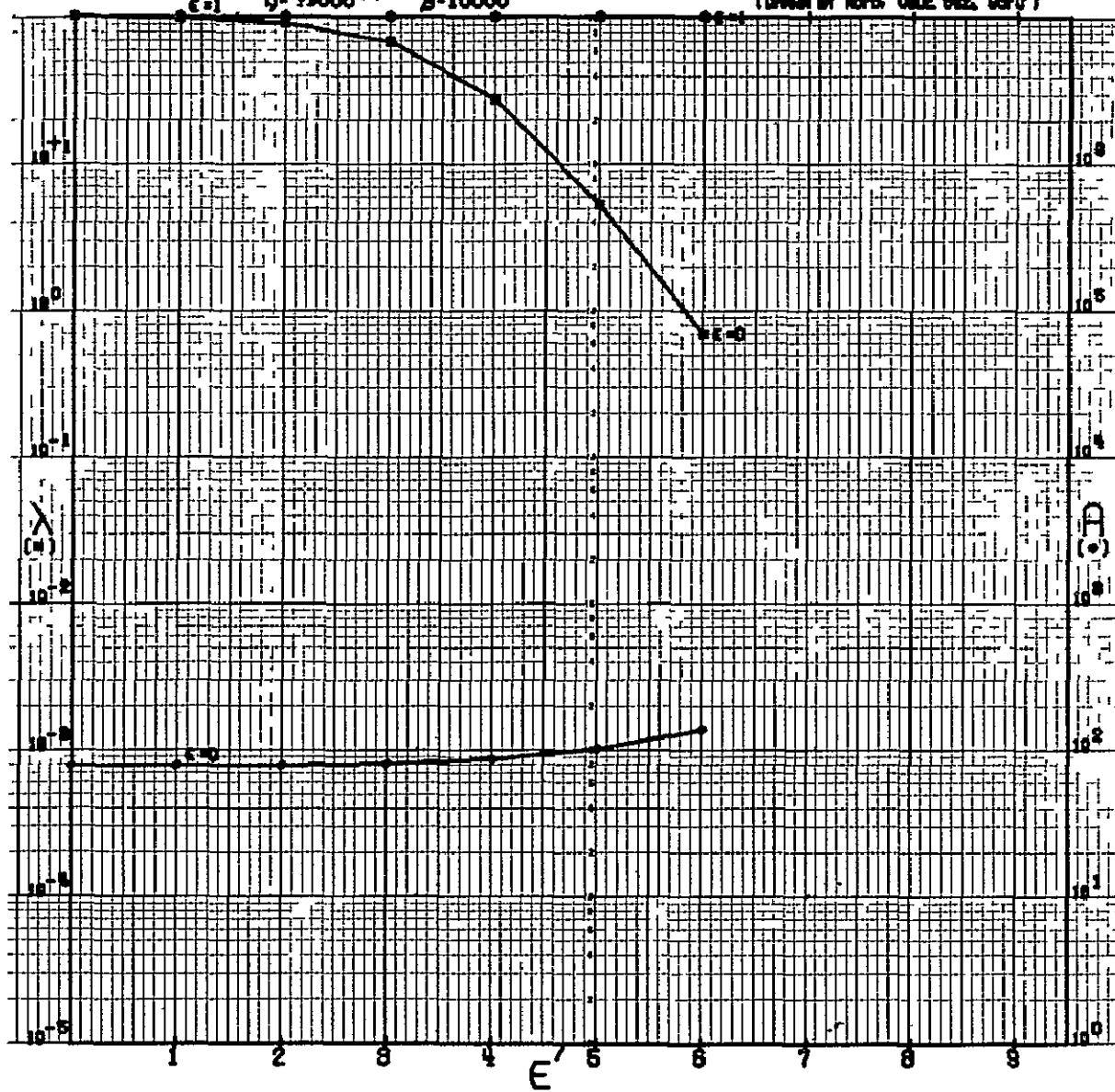
N=12

ORCE 110101108000
SIFU STANDARD

$\epsilon = 1008$

$\beta = 10000$

(DRAWN BY ROPD, ORCE DES, SIFU)



$$N = 13$$

N=13

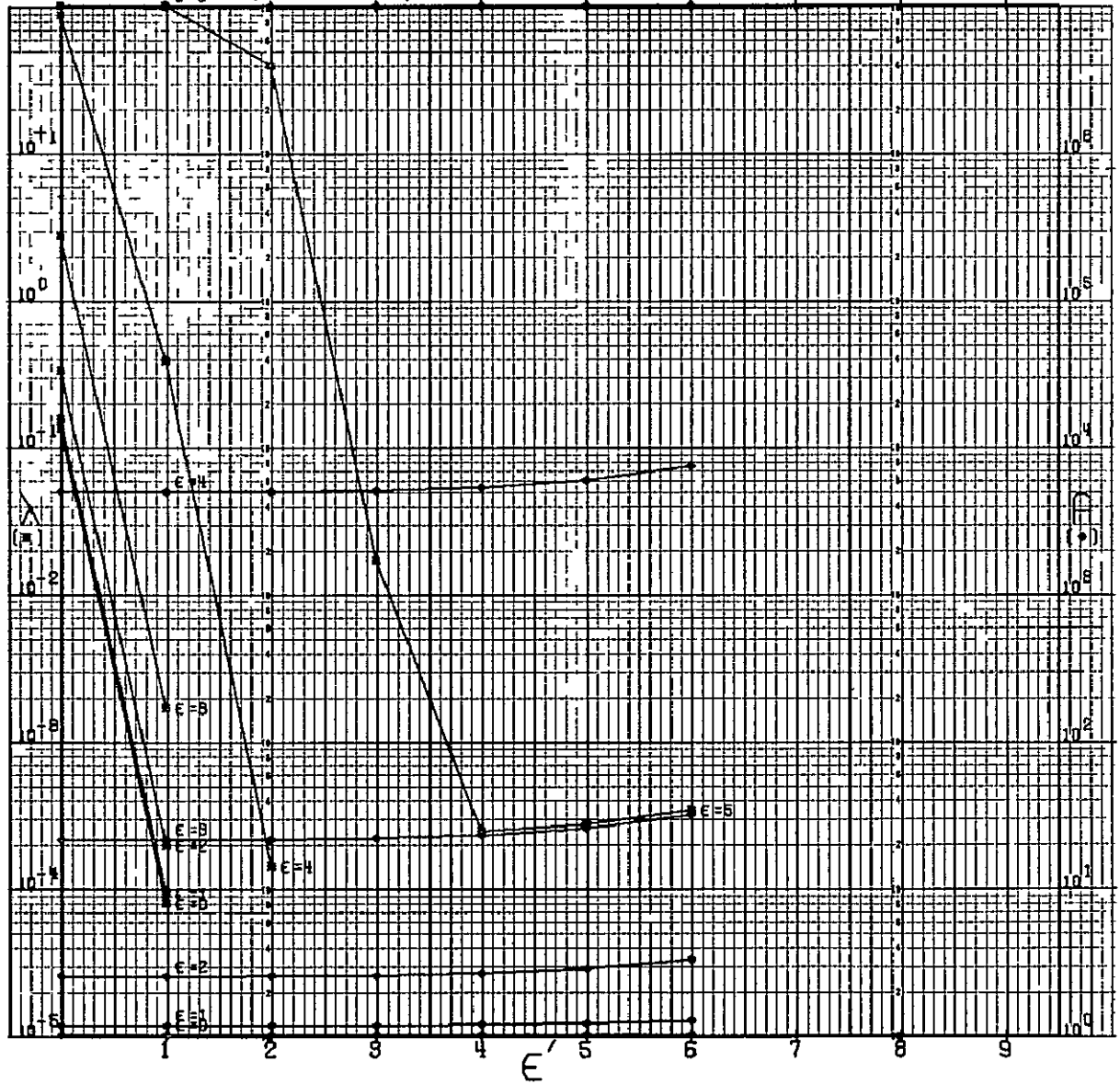
CODE 1110101100000

GSFC STANDARD

$\epsilon = 5$ $\eta = +0001$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



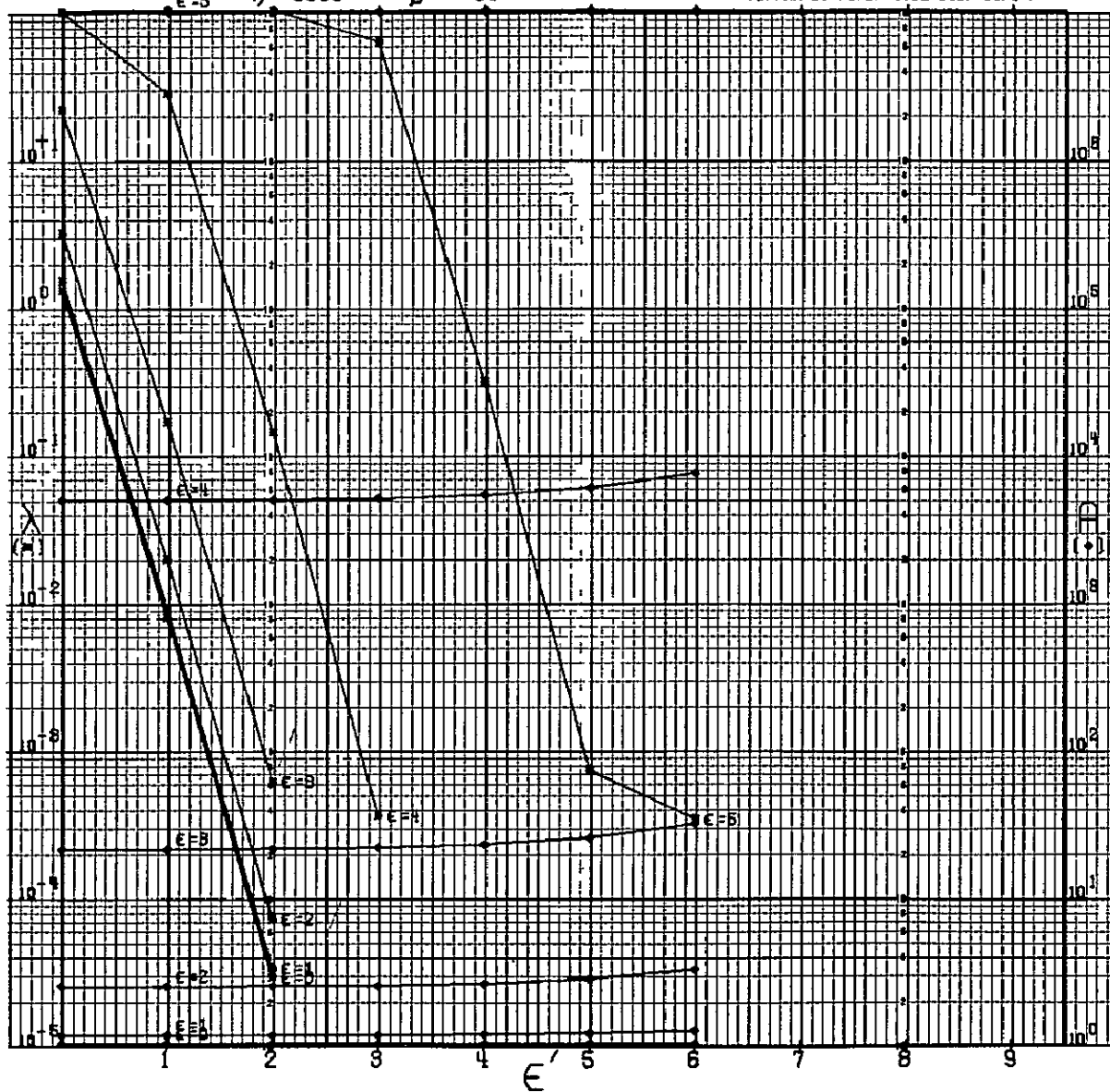
N = 13

CODE 1119101100000
GSFC STANDARD

$\epsilon = 5$ $\eta = .0010$

$\beta = 50$

(DRAWN BY ROPS, CODE 512, GSFC)



N=19

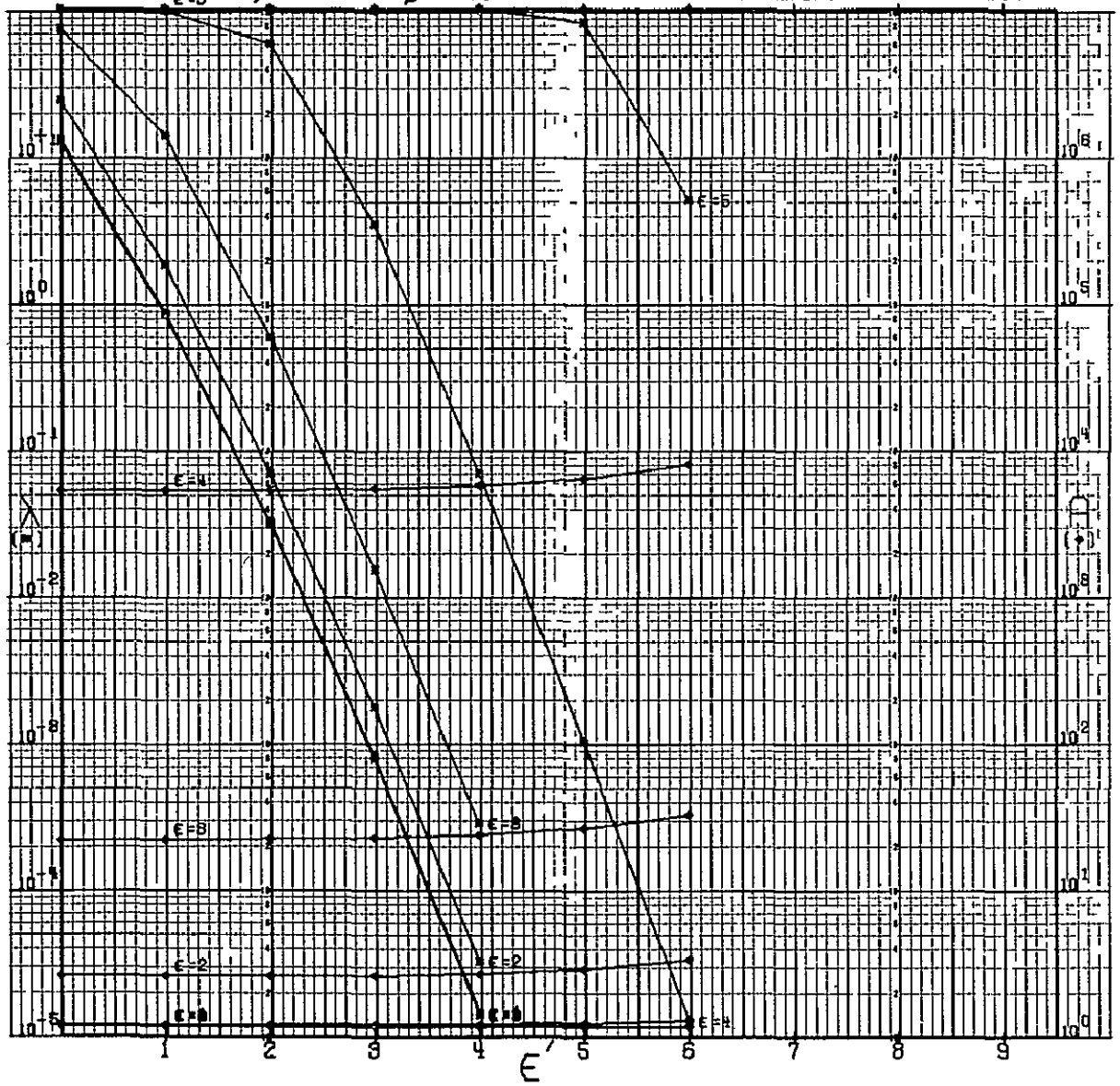
CODE 1110101100000

GSFC STANDARD

$\epsilon = 5$ $\eta = 0.100$

$\beta = 50$

(DRAWN BY ROPB CODE 542, GSFC)



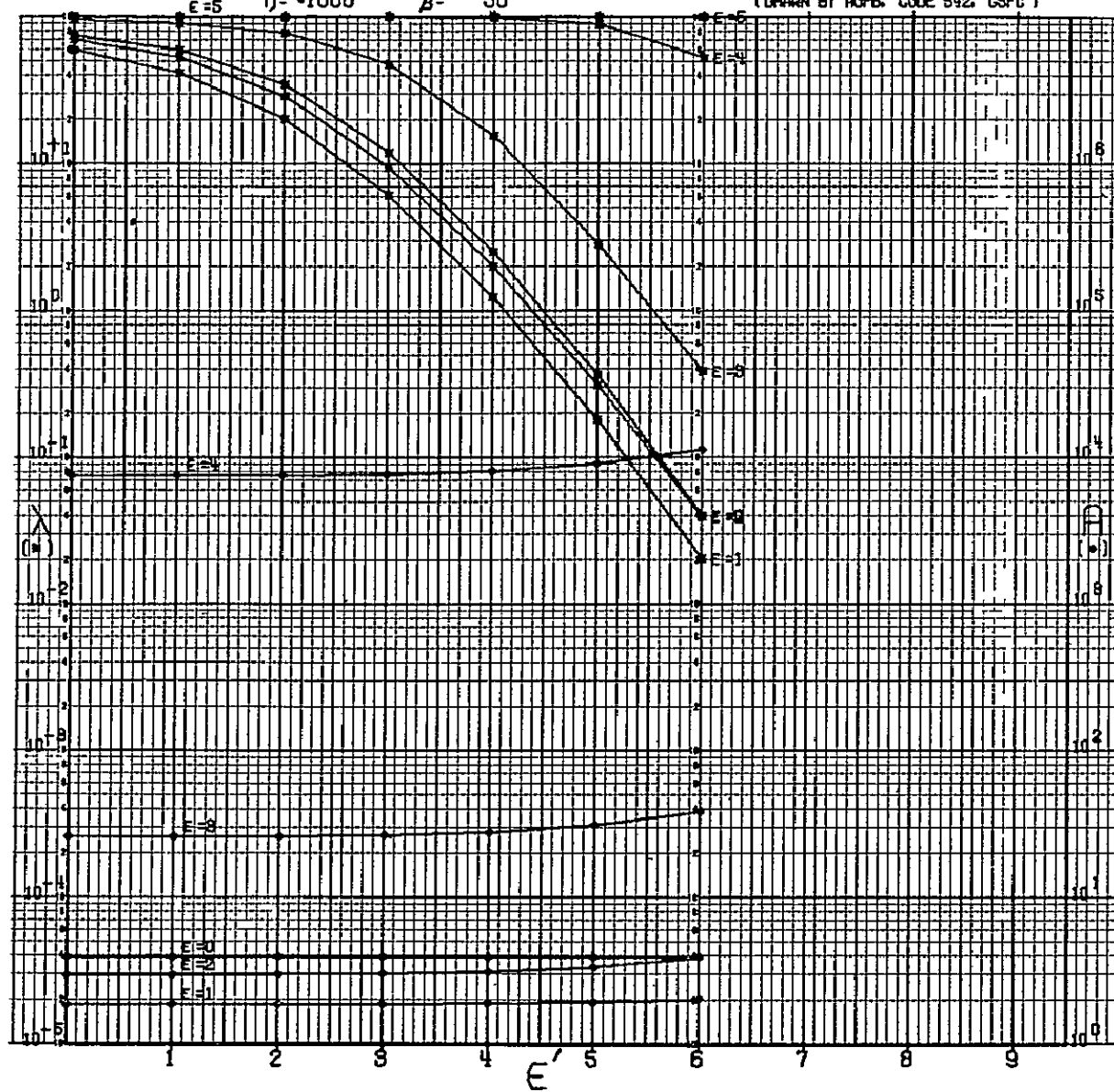
N = 19

CODE 1110101100000
GSFC STANDARD

$\eta = 1000$

$\beta = 50$

(DRAWN BY ADPB, CODE 542, GSFC)



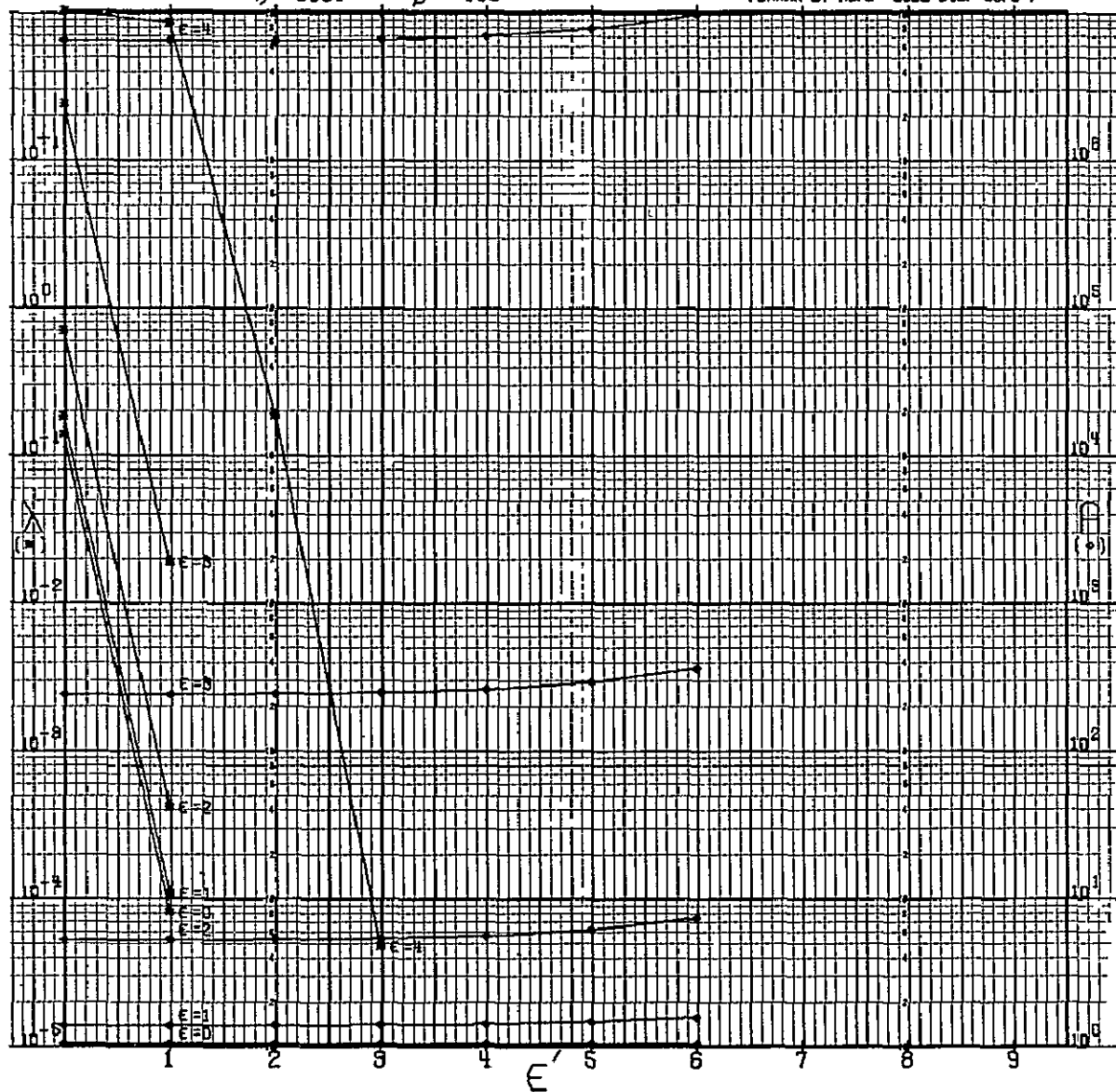
N = 13

CODE 1110101100000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY ADPB CODE 542, GSFC)



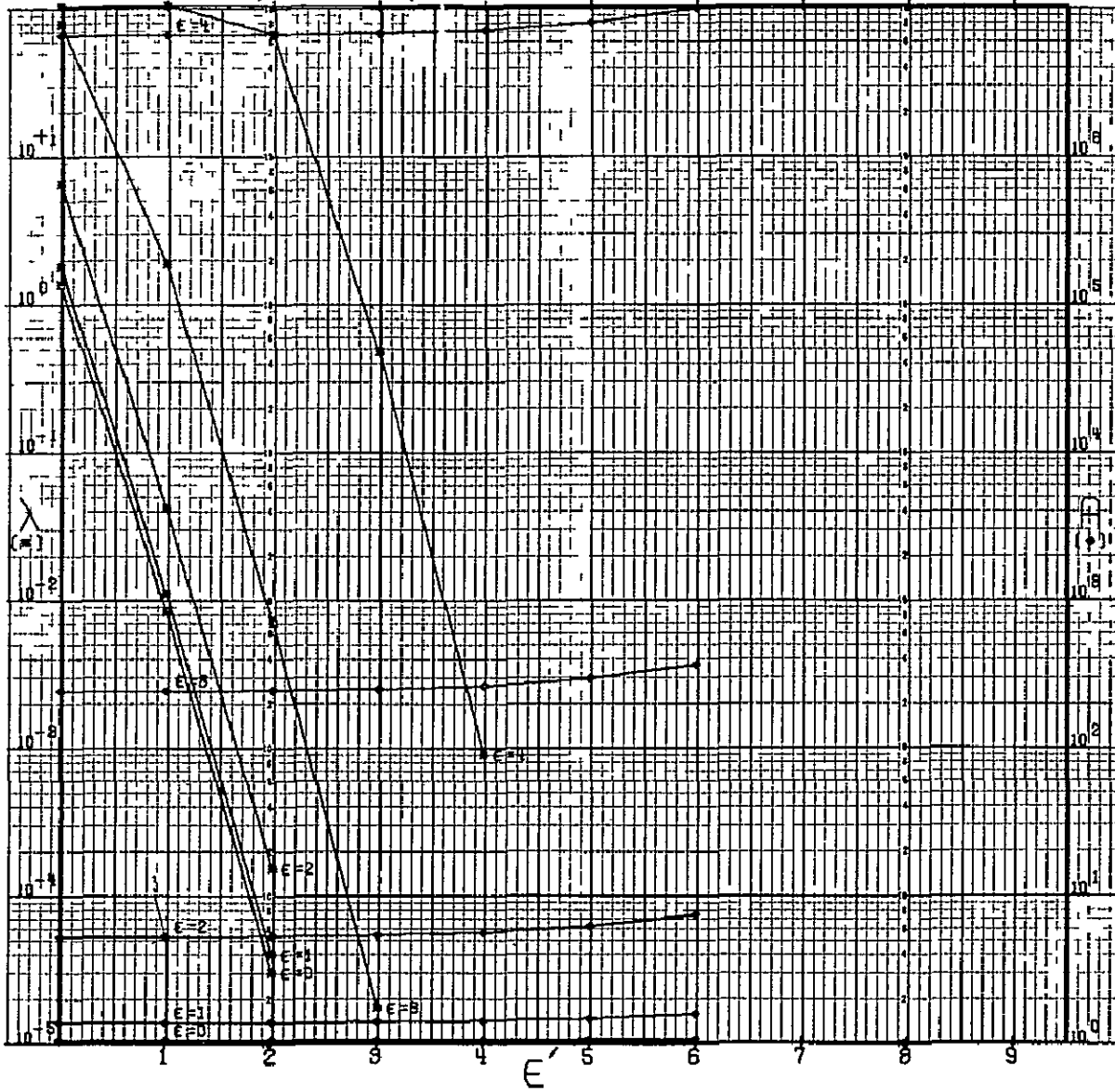
N=13

CODE 1110101100000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ROFB, CODE 542, GSFC)



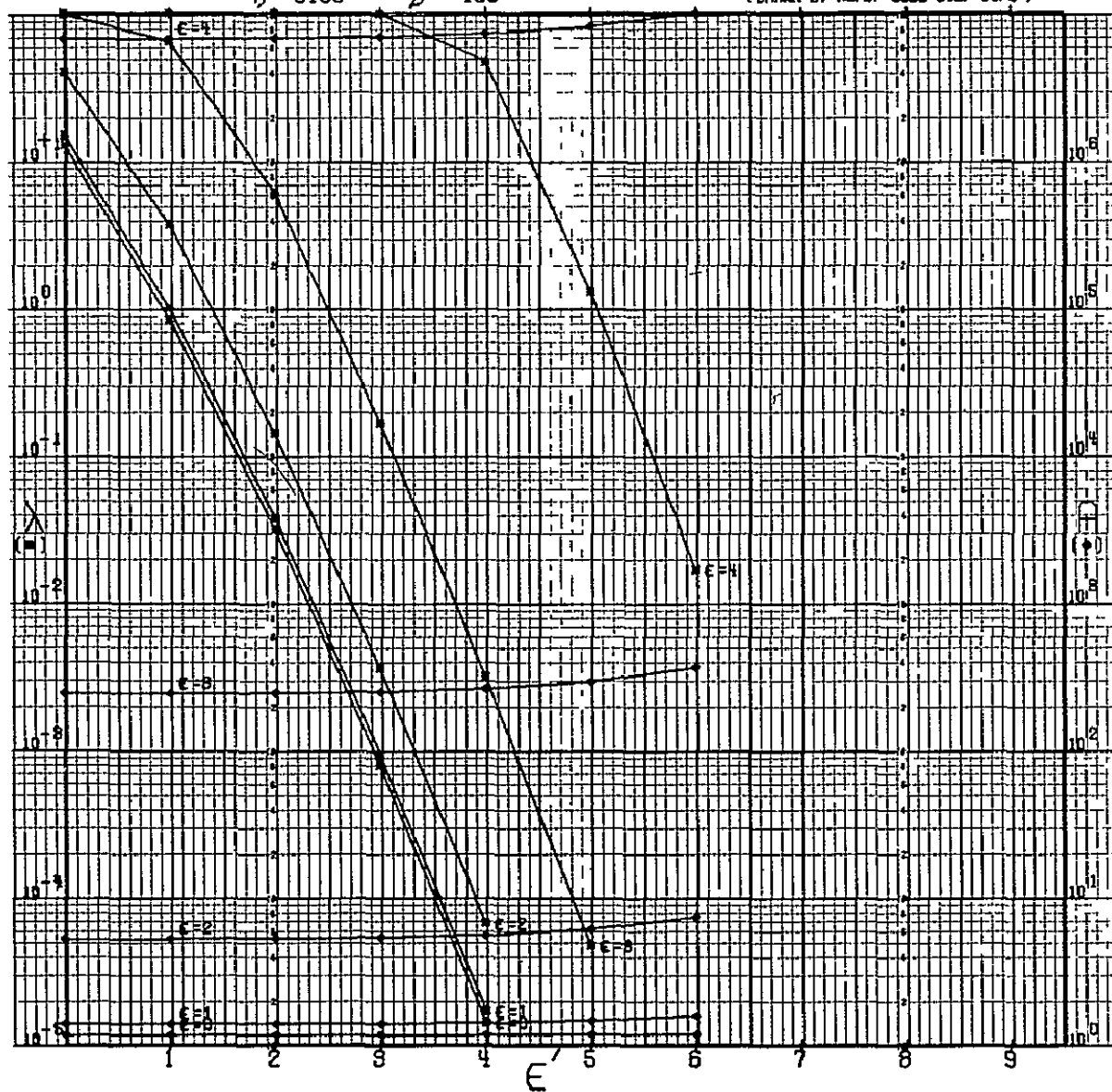
N=13

C80E 1110101100000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



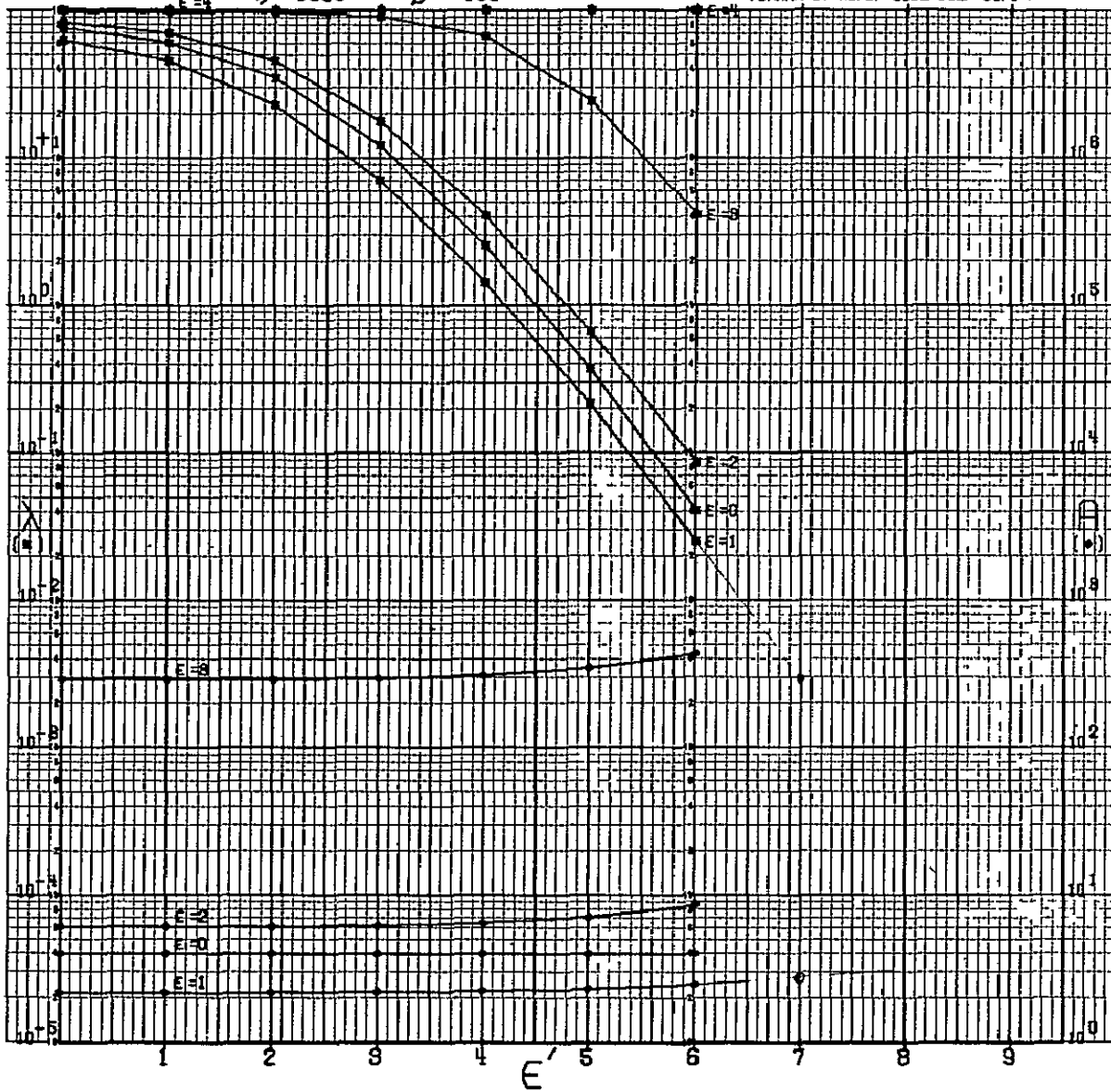
N=19

CODE 111010110000
GSFG STANDARD

$\eta = +1000$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 13

CODE 1110101100000
GSFC STANDARD

$\epsilon = 4$

$\eta = 0.001$

$\beta = 200$

(DRAWN BY ADPS, CODE 542, GSFC)



N = 13

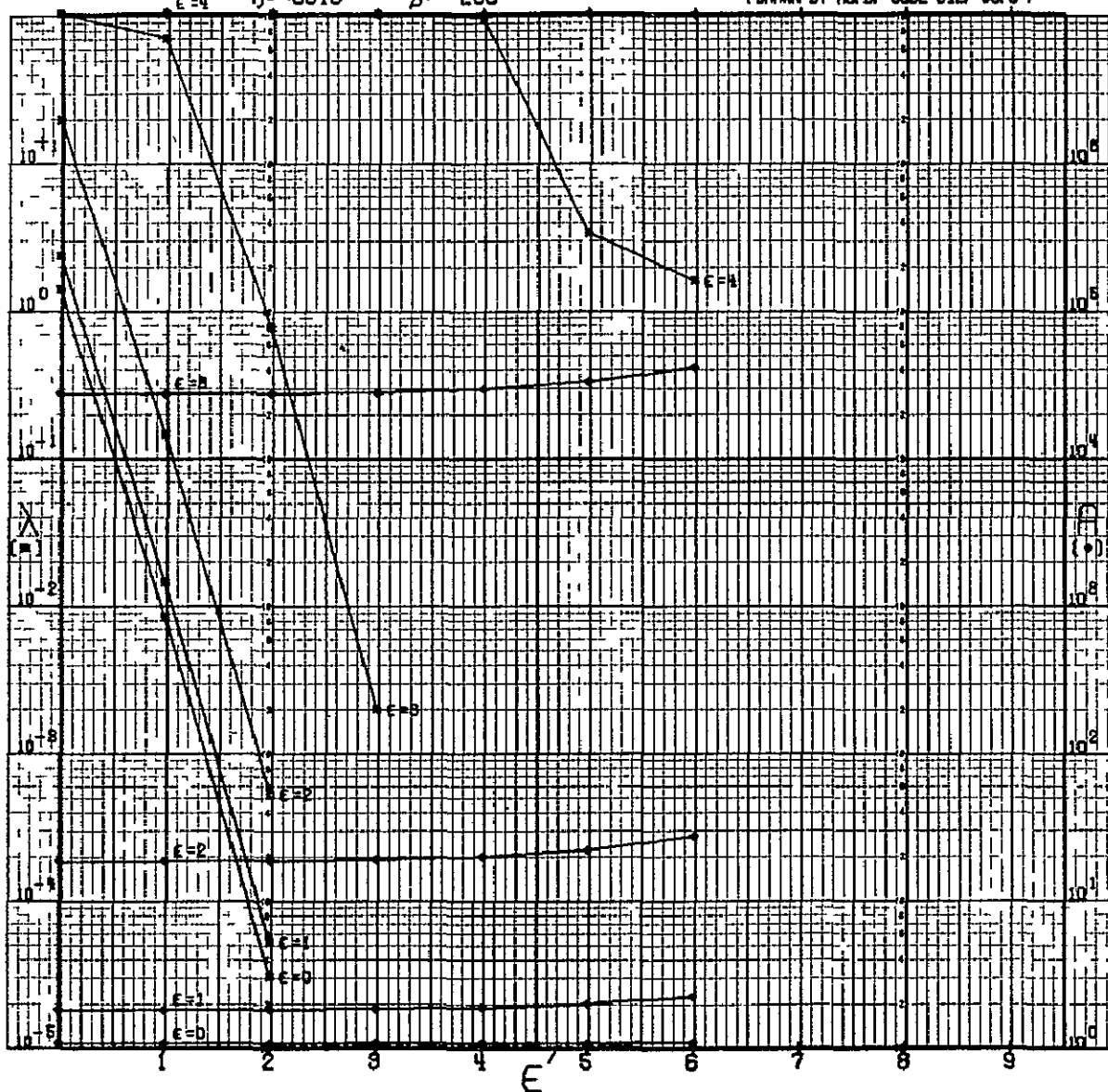
CODE 1110101100000

GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 19

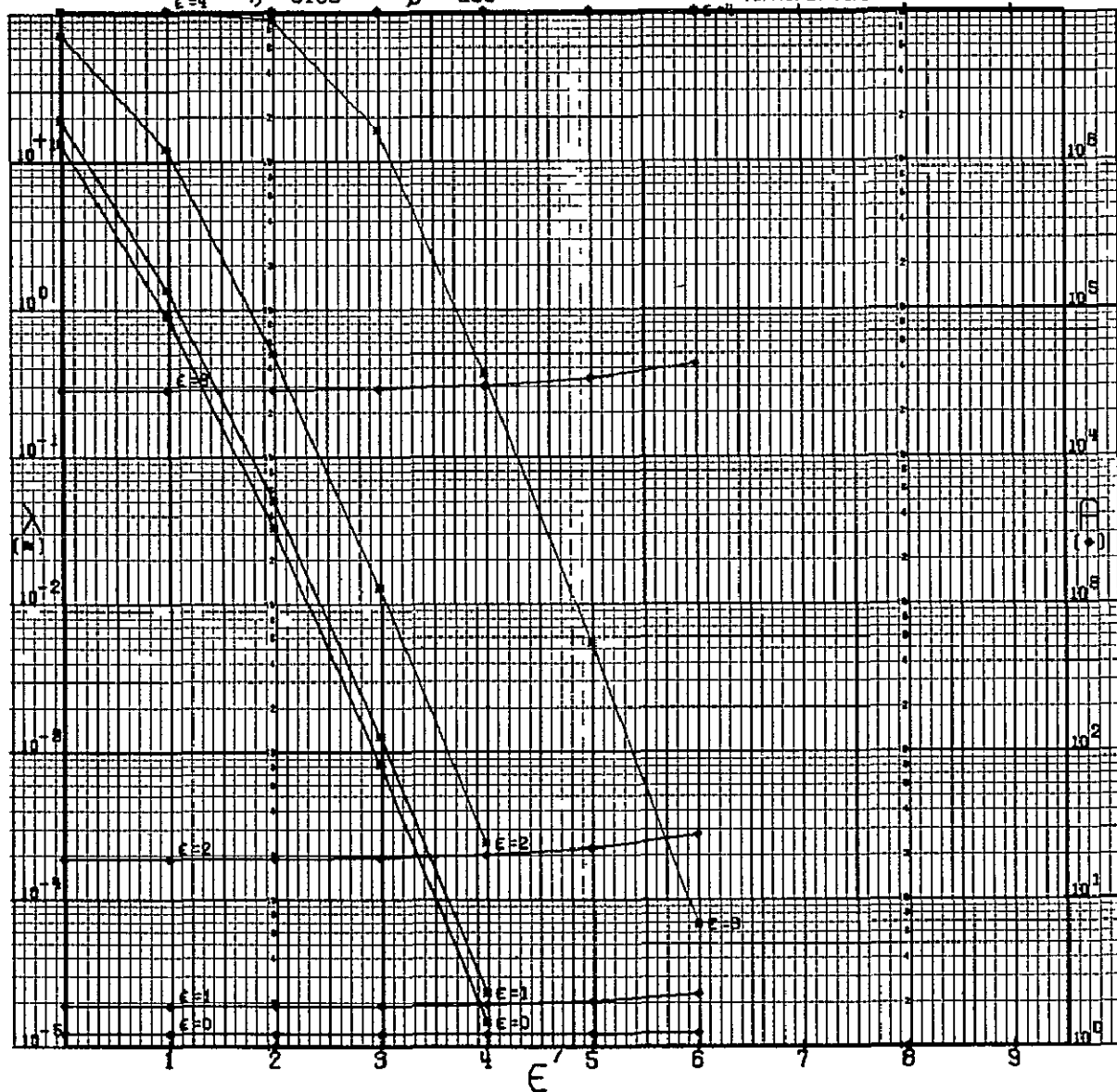
CODE 1110101100000
GSFC STANDARD

$\epsilon = 4$

$\eta = +0100$

$\beta = 200$

(DRAWN BY ROPE, CODE 542, GSFC)



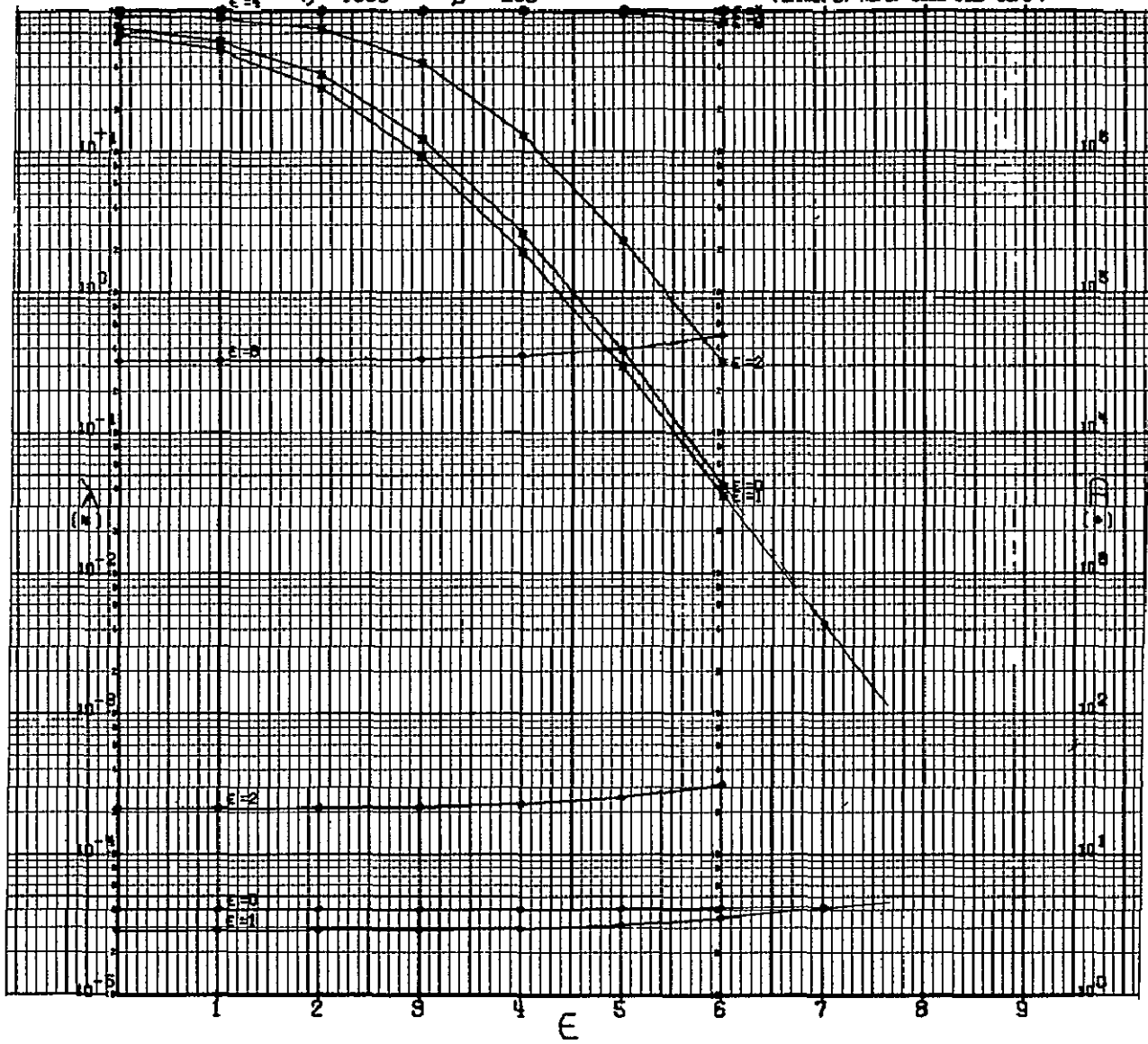
N=18

CODE 1110101100000
GSFC STANDARD

$\sigma = 1000$

$\beta = 200$

(DRAWN BY ROPB. CODE 512. GSFC)



N=13

CODE 1110101100000

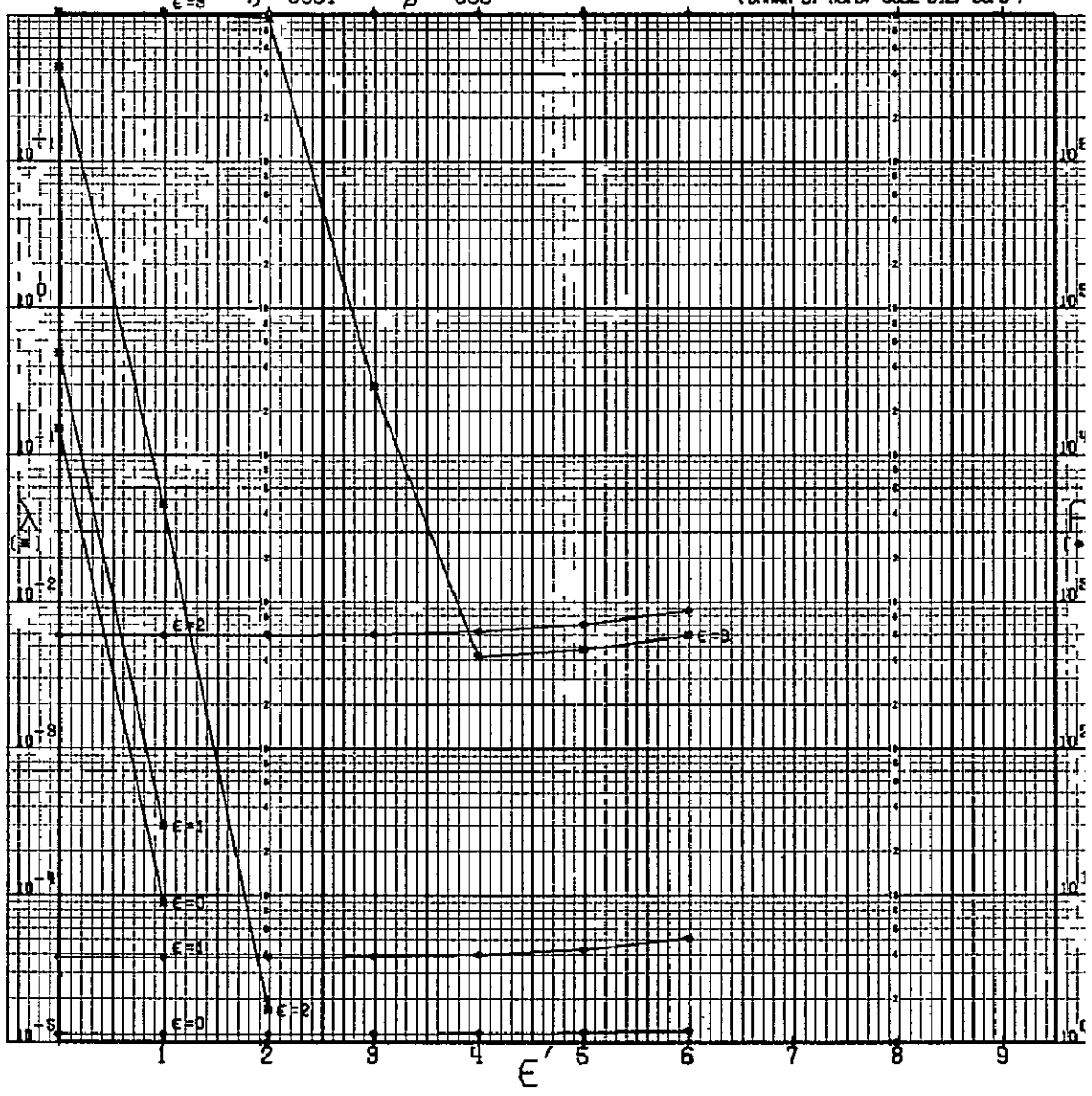
GSFC STANDARD

$\epsilon=8$

$\eta=0.0001$

$\beta=500$

(DRAWN BY ROPB, CODE 542, GSFC)



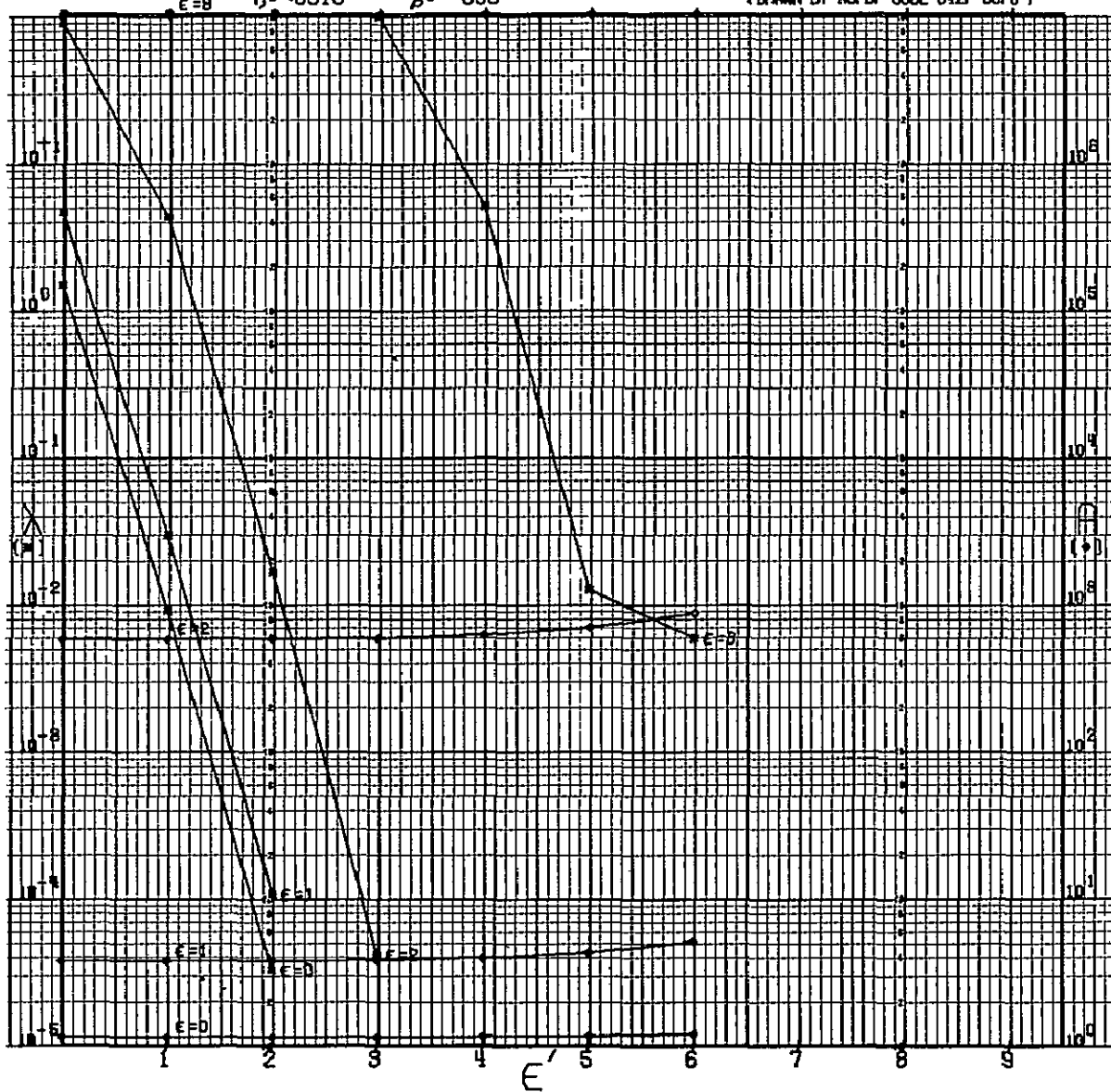
N=19

CODE 1110101100000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROPS, CODE 542, GSFC)



N=13

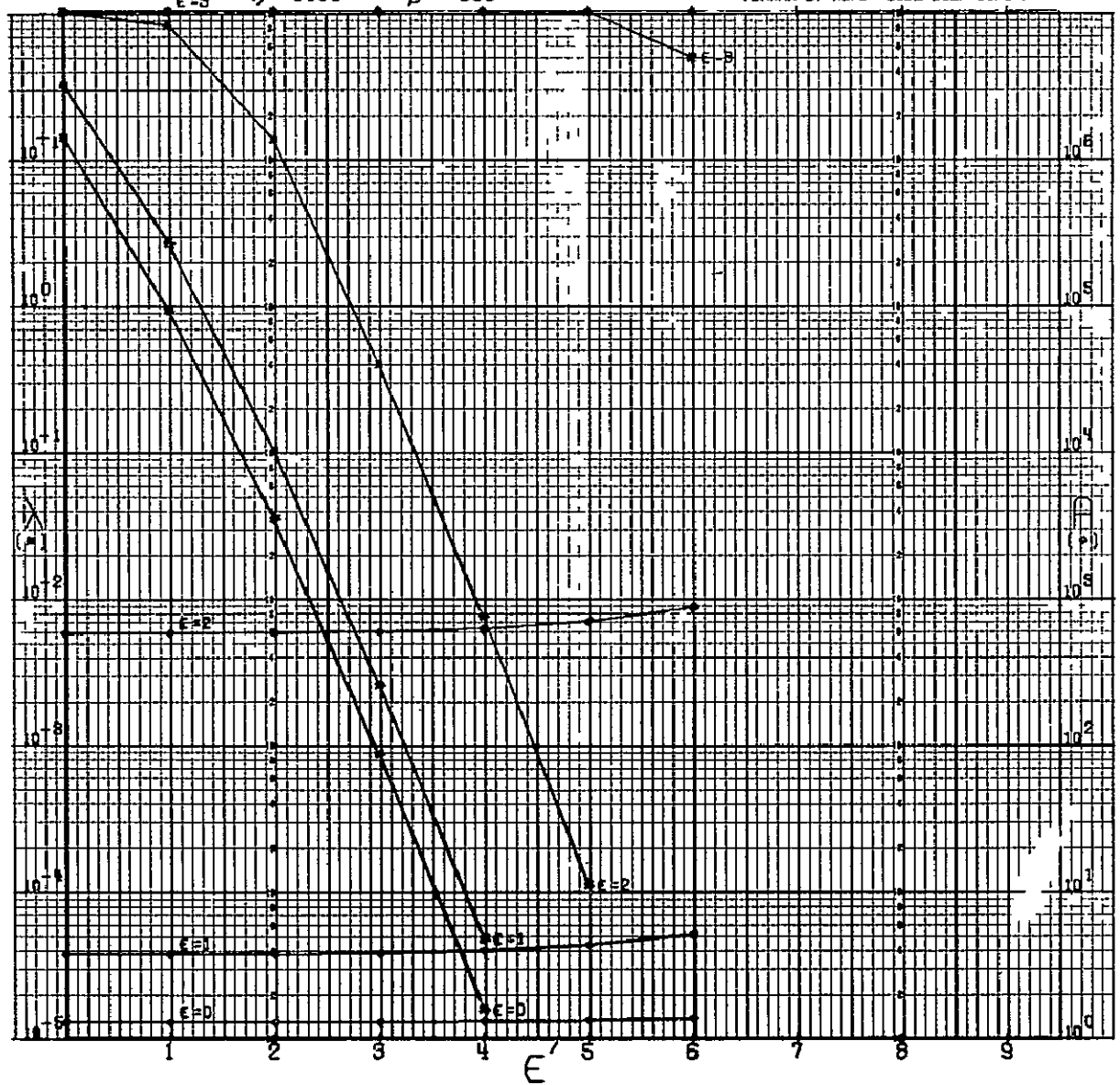
CODE 1110101100000

GSFC STANDARD

$\epsilon = 8$ $\eta = 0.0100$

$\beta = 500$

(DRAWN BY RCPB CODE 542, GSFC)



N=13

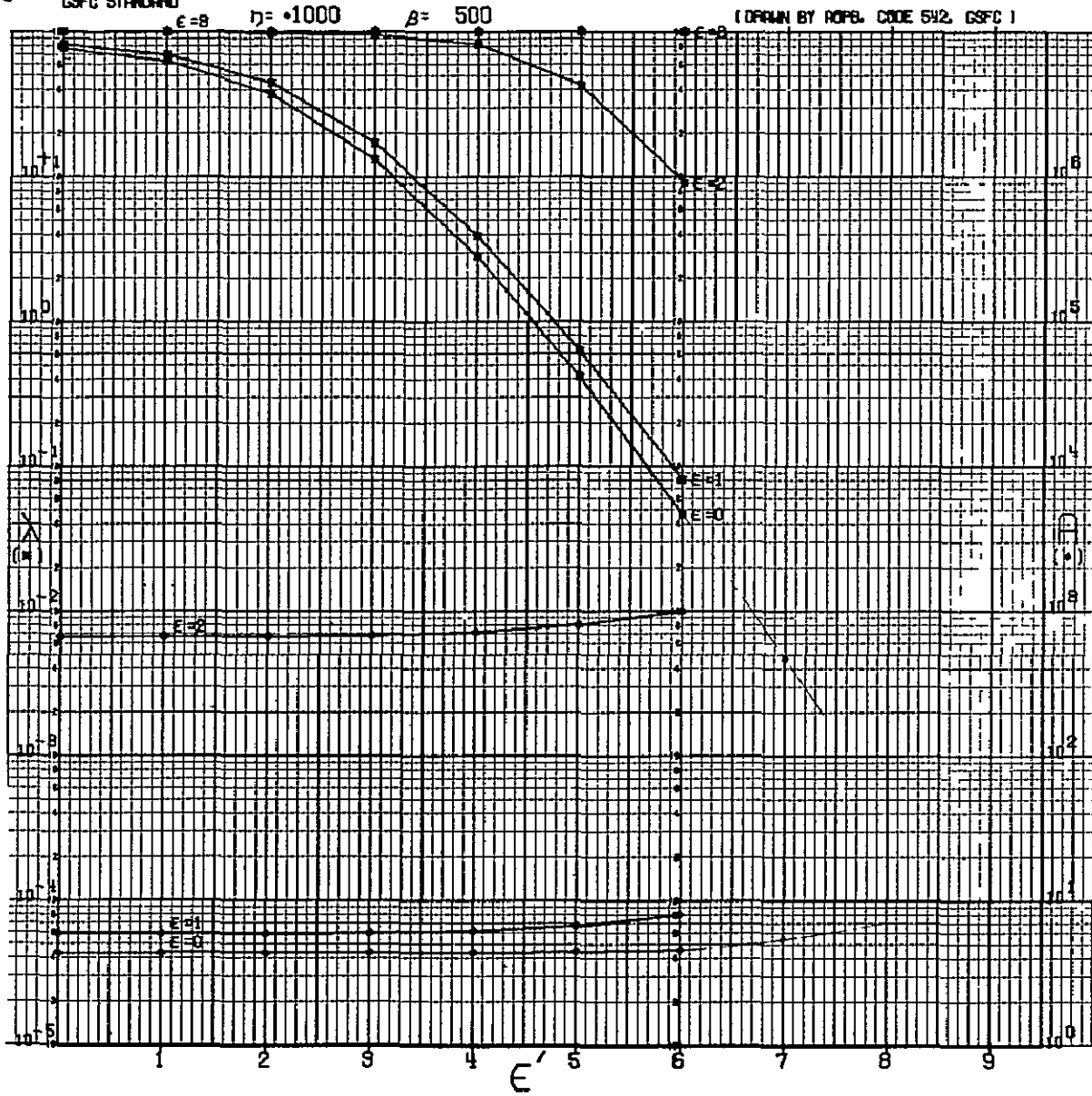
CODE 1110101100000

GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY AOPS. CODE 542, GSFC)



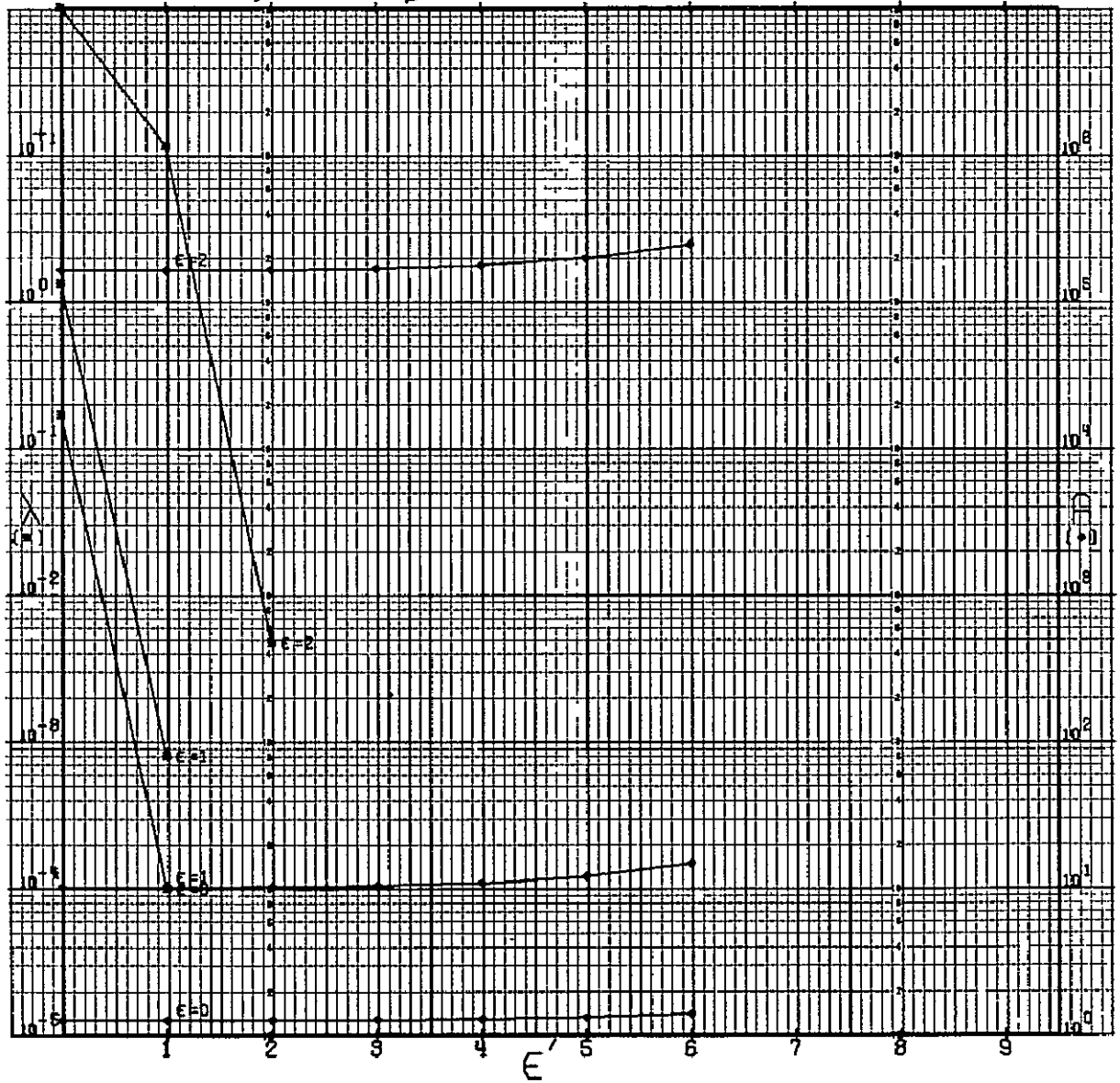
N=19

CODE 1110101100000
GSFC STANDARD

$\eta = +0001$

$\beta = 1000$

(DRAWN BY ACPB. CODE 542. GSFC)



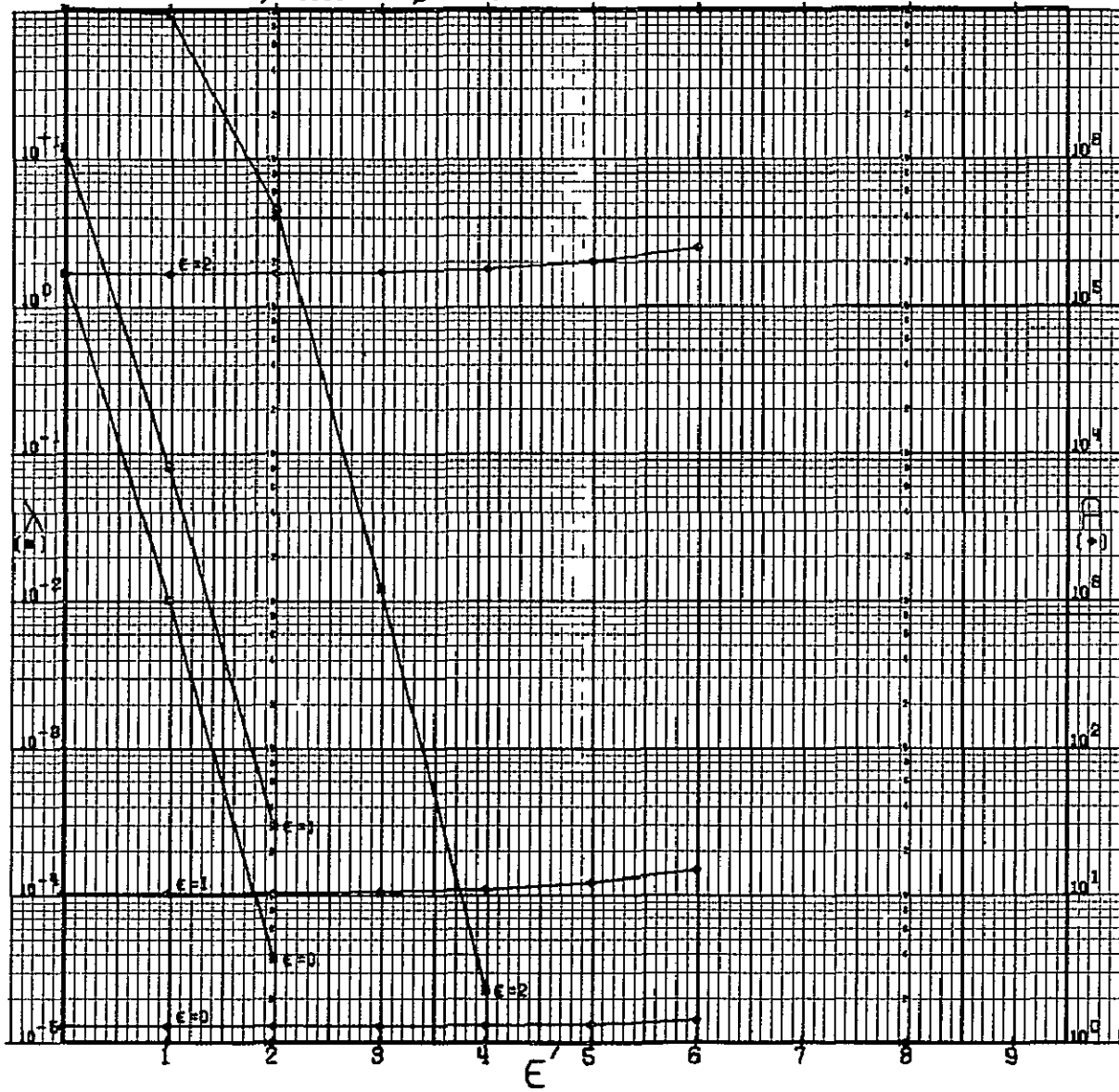
N = 18

CODE 111010110000
GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPEL CODE 542 GSFC)



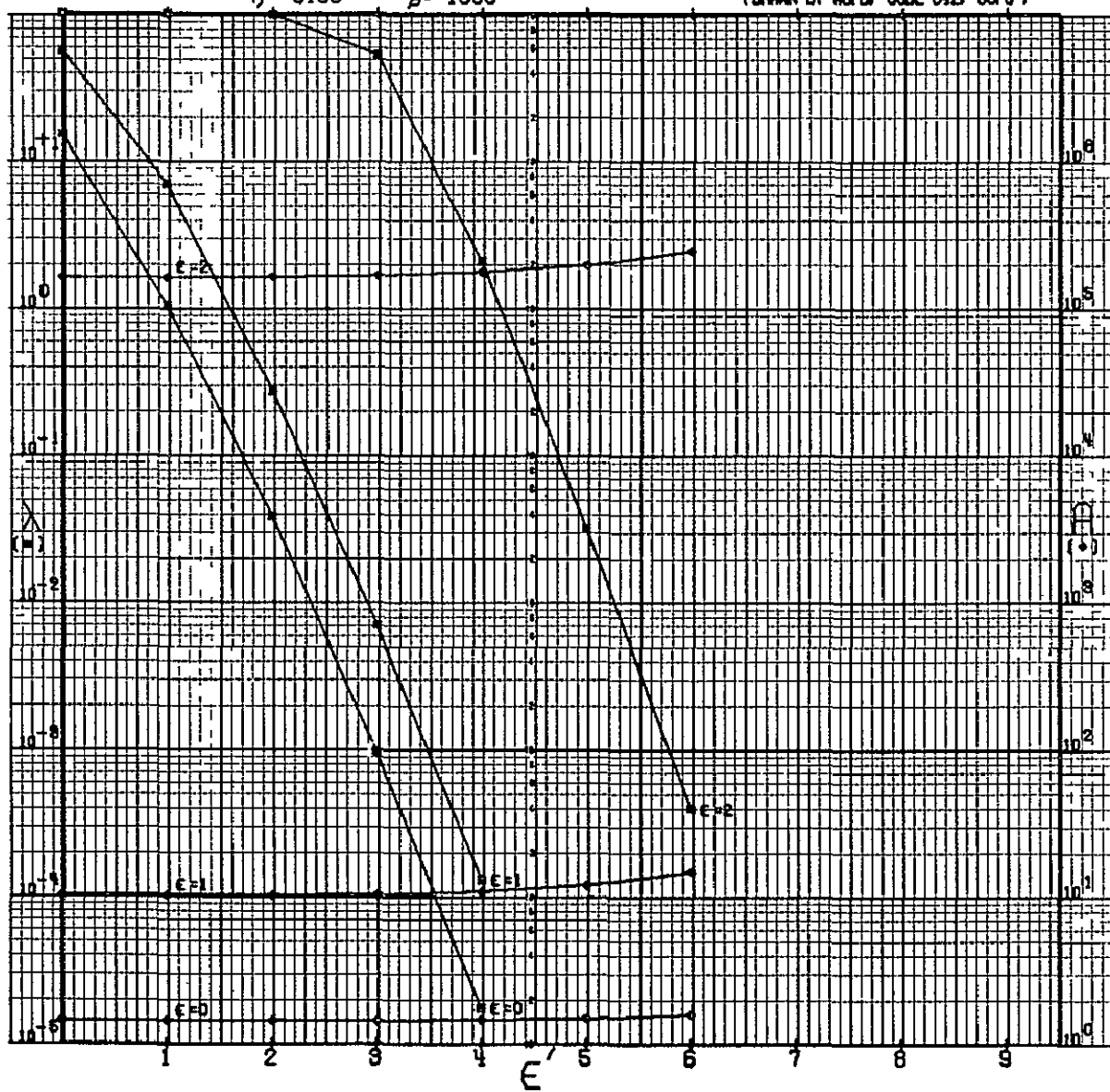
N = 13

CODE 1119101100000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



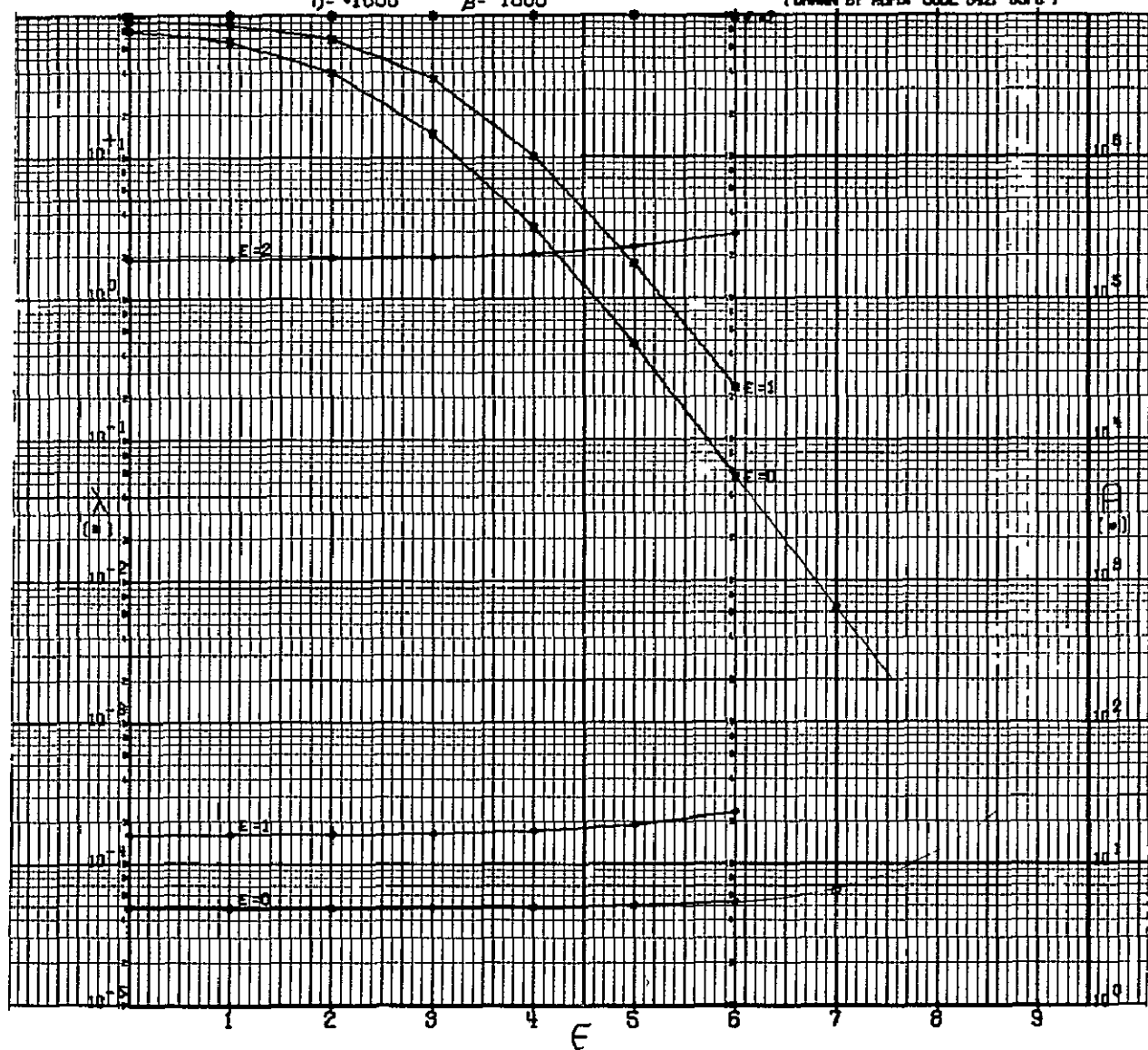
N=18

CODE 1110101100000
GSFC STANDARD

$h = 1000$

$\beta = 1000$

(DRAWN BY AOPS. CODE 612. GSFC)



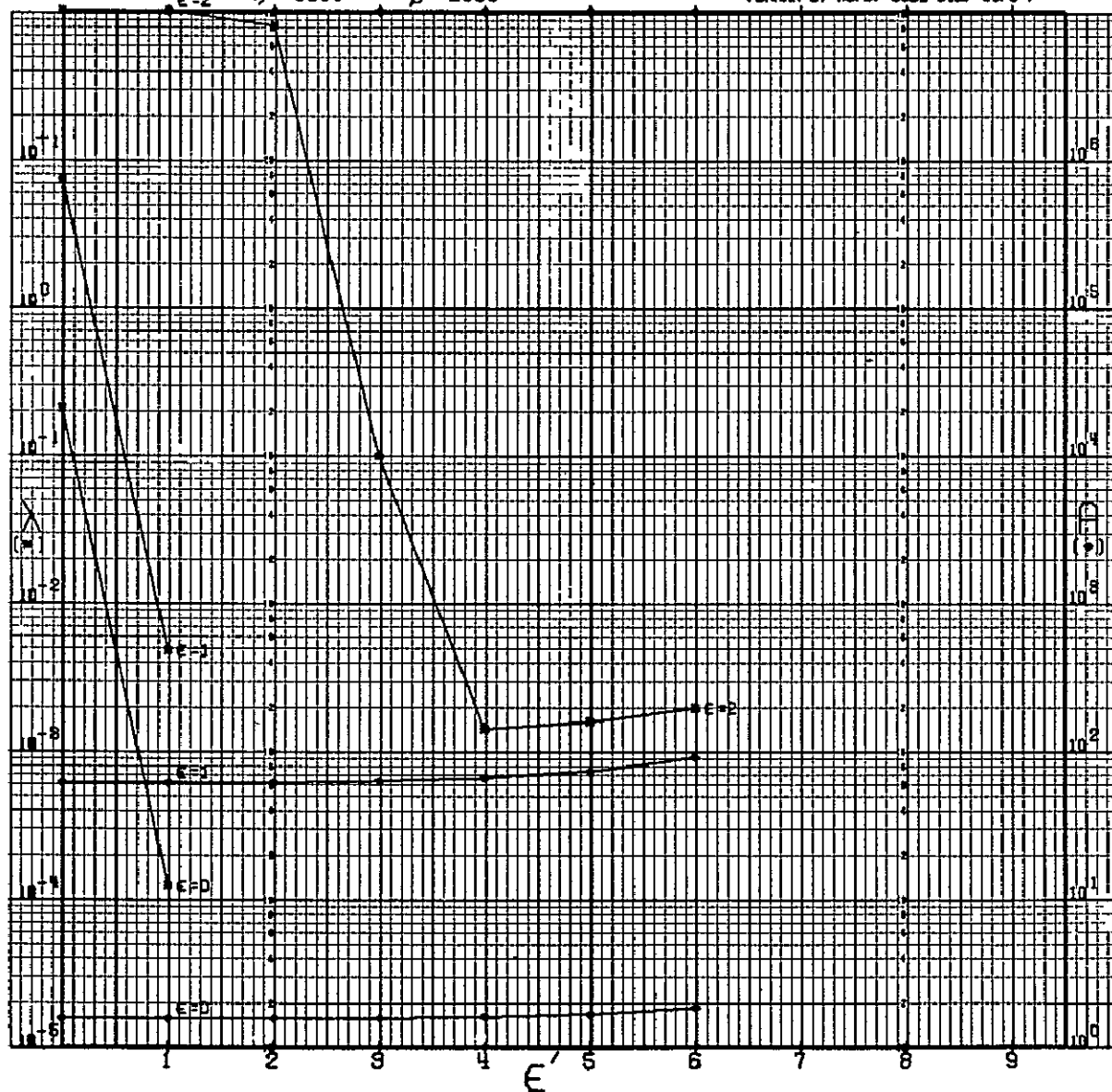
N = 13

CODE 1120101300000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0001$

$\beta = 2000$

(DRAWN BY ACPBL CODE 542, GSFC)



N=13

CODE 1110101100000

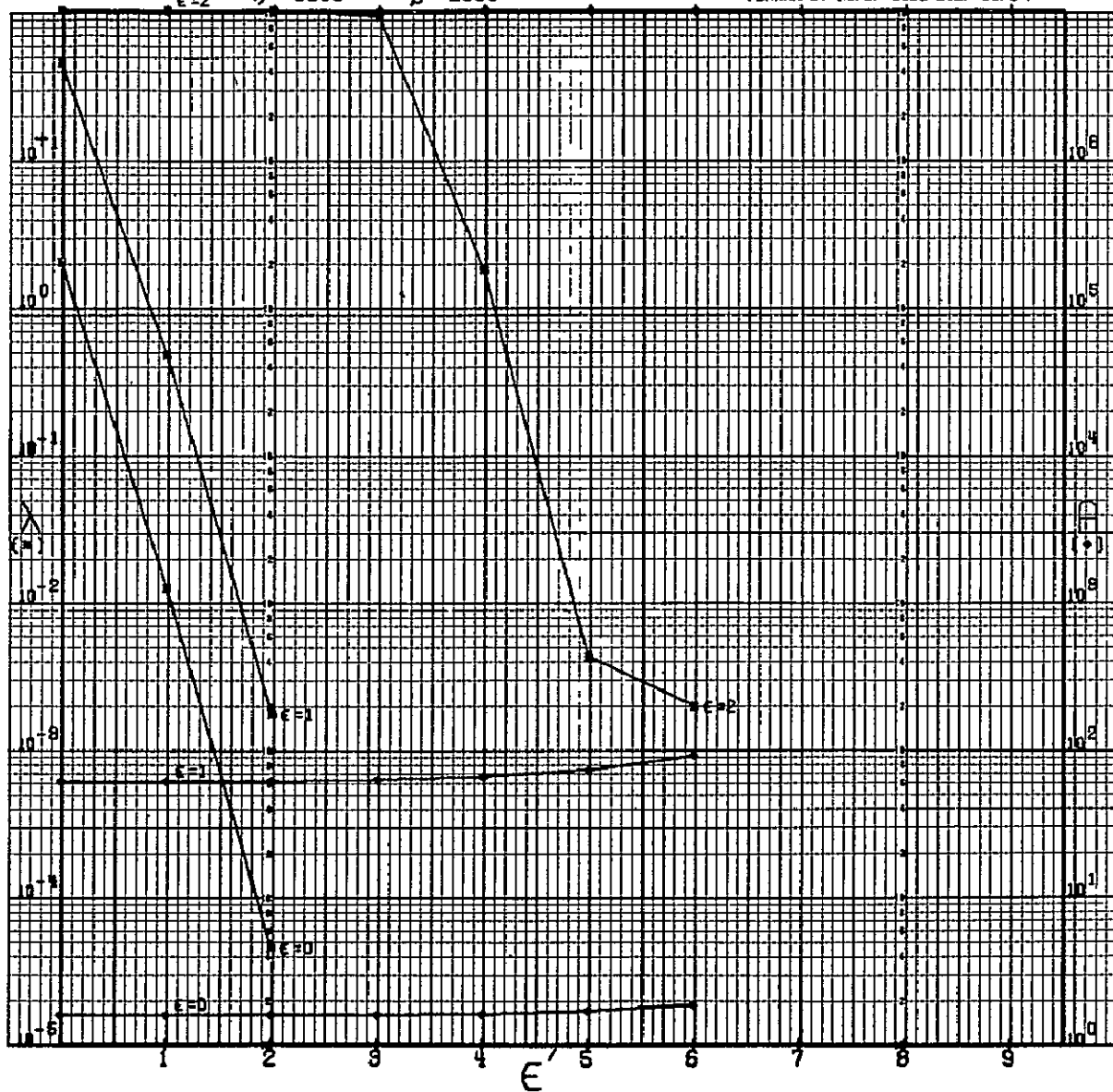
GSFC STANDARD

$\epsilon=2$

$\eta=0010$

$\beta=2000$

(DRAWN BY ROPB, CODE 542, GSFC)



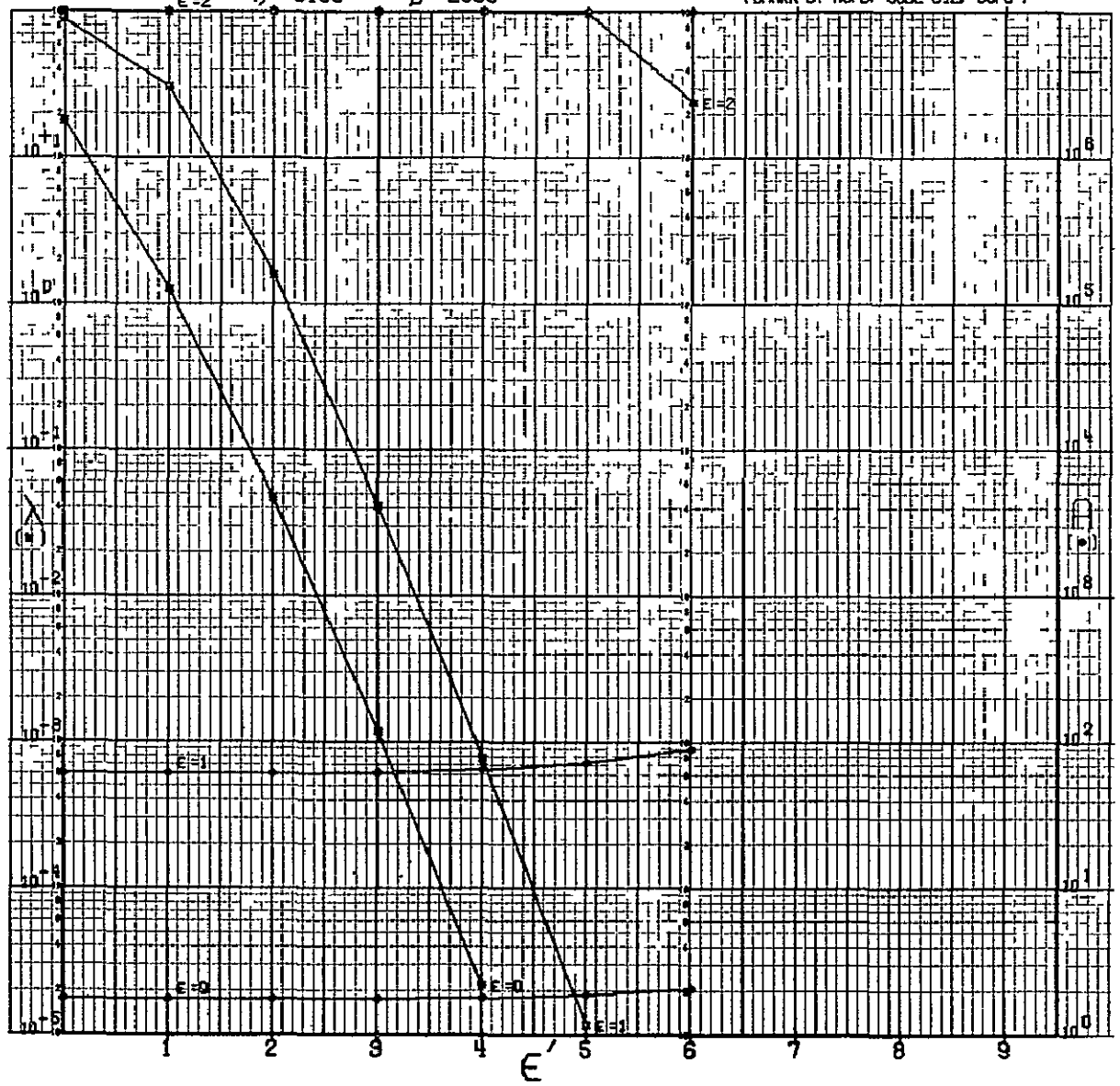
N = 13

CODE 1110101100000
GSFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=19

CODE 1110101100000

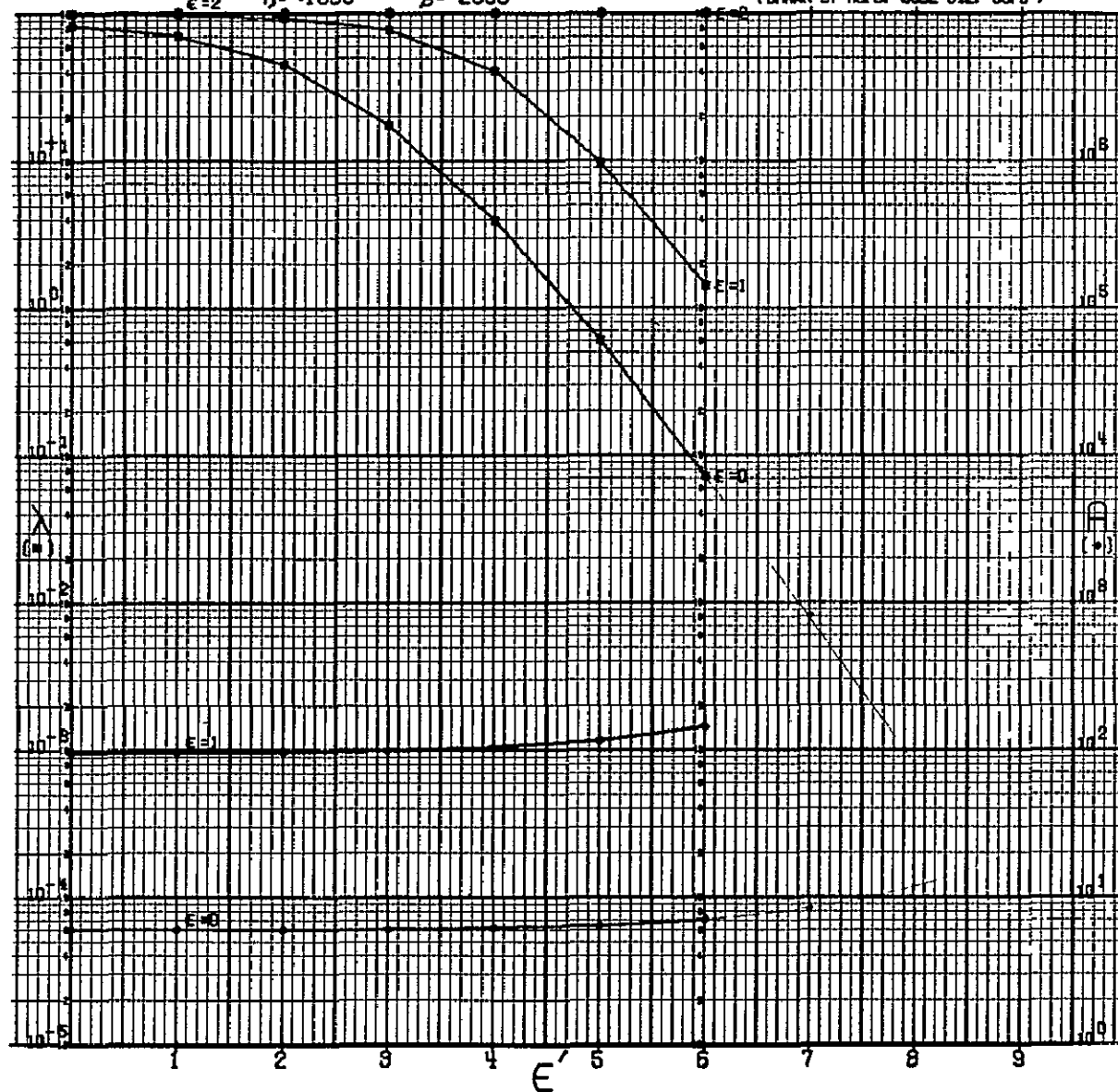
GSFC STANDARD

$\epsilon=2$

$\eta=1000$

$\beta=2000$

(DRAWN BY ROPB. CODE 642. GSFC)



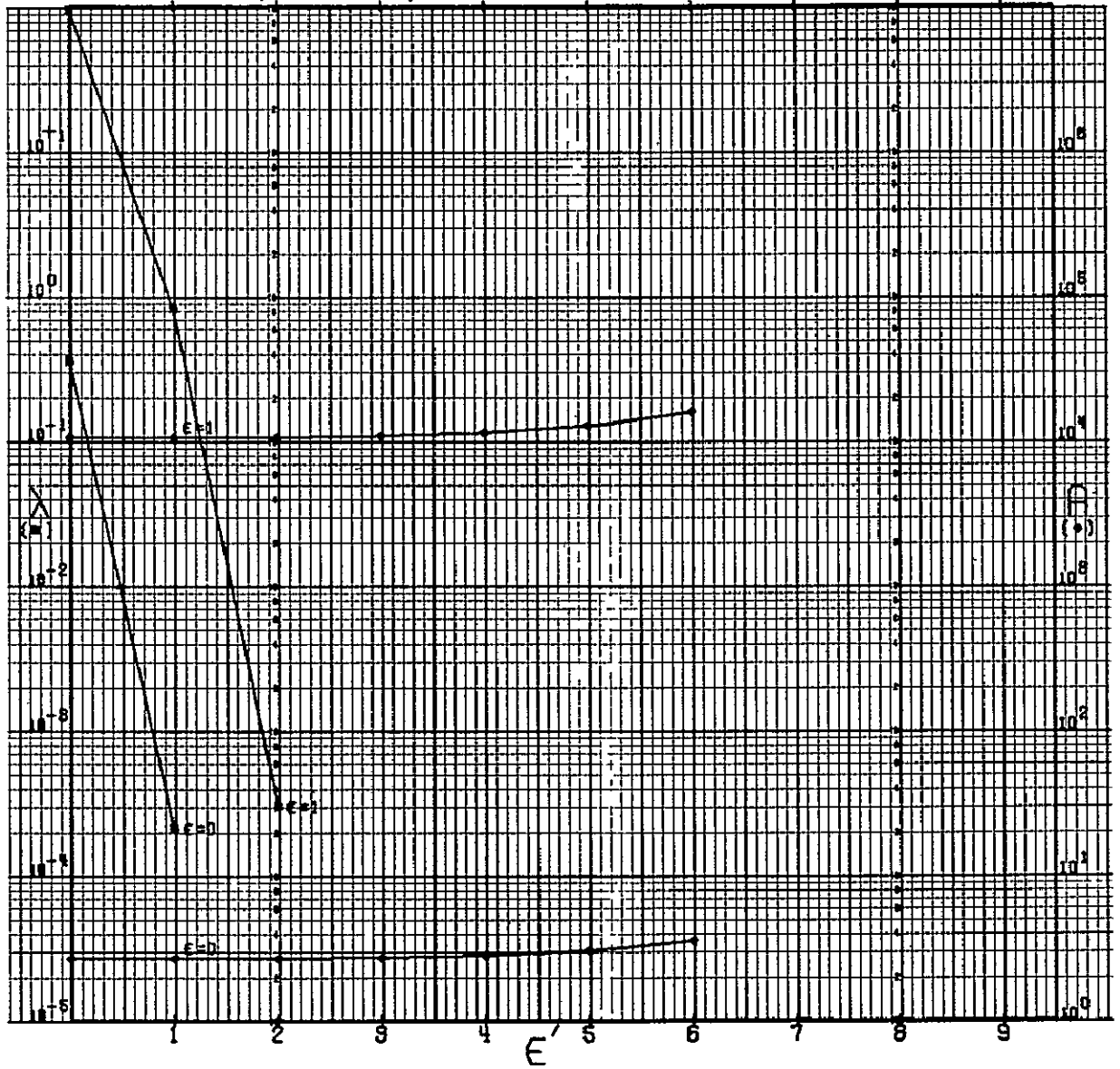
N=19

CODE 1110101100000
GSFC STANDARD

$\eta = -0001$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



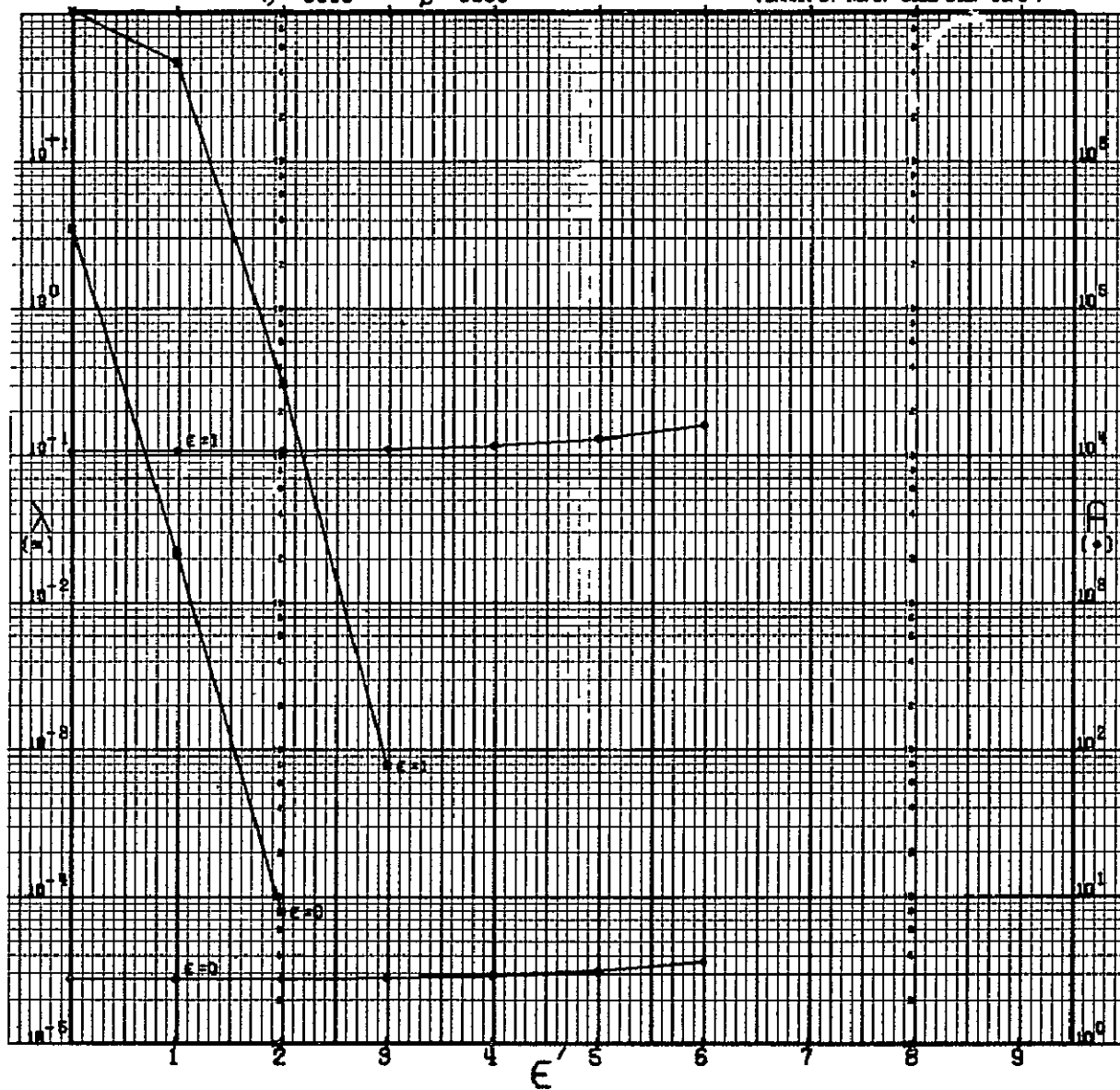
N=19

CODE 111010110000
GSFC STANDARD

$\eta = +0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 642, GSFC)



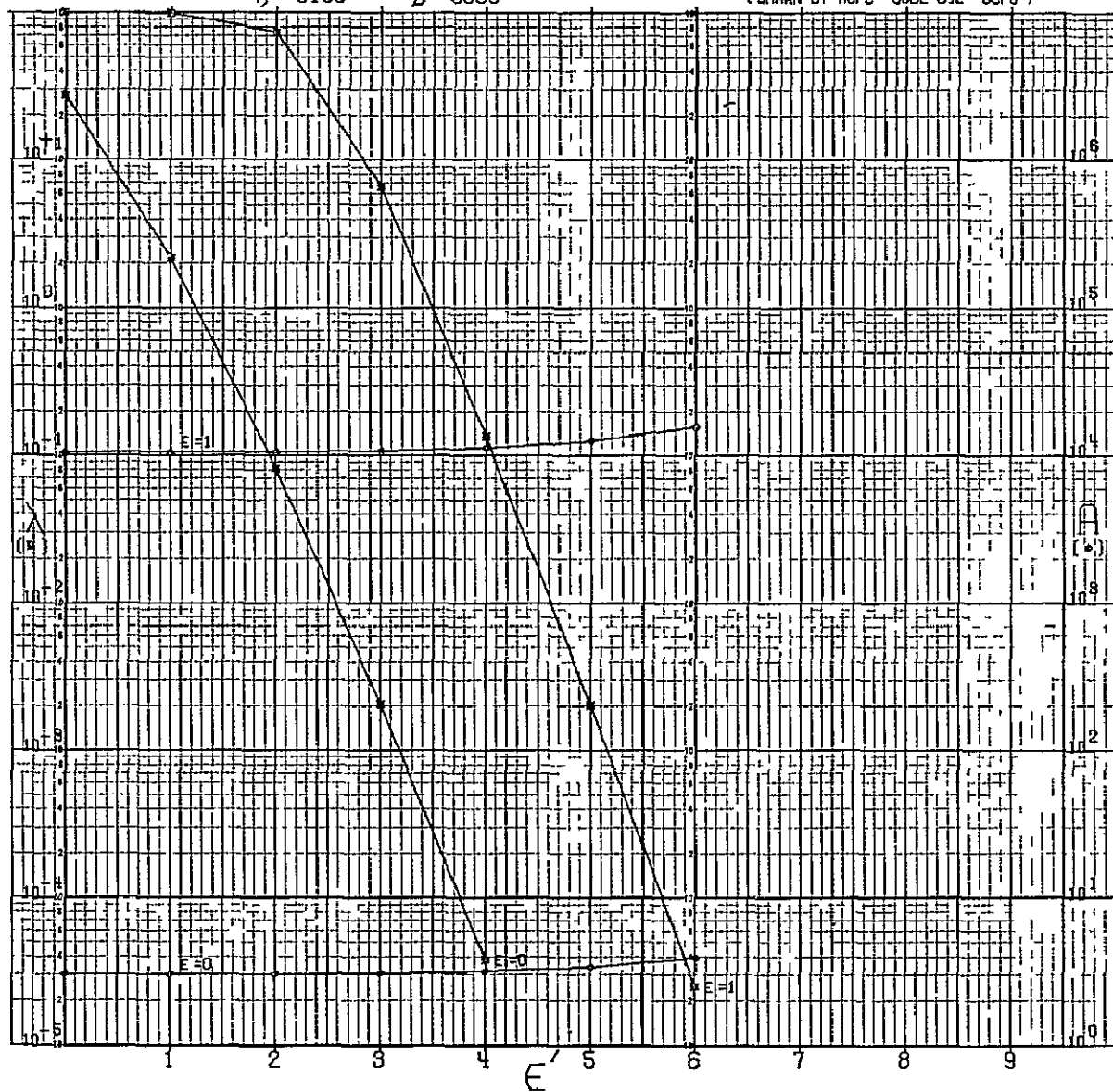
N = 13

CODE 1110101100000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 5000$

(DRAWN BY ADPB CODE 592 GSFC)



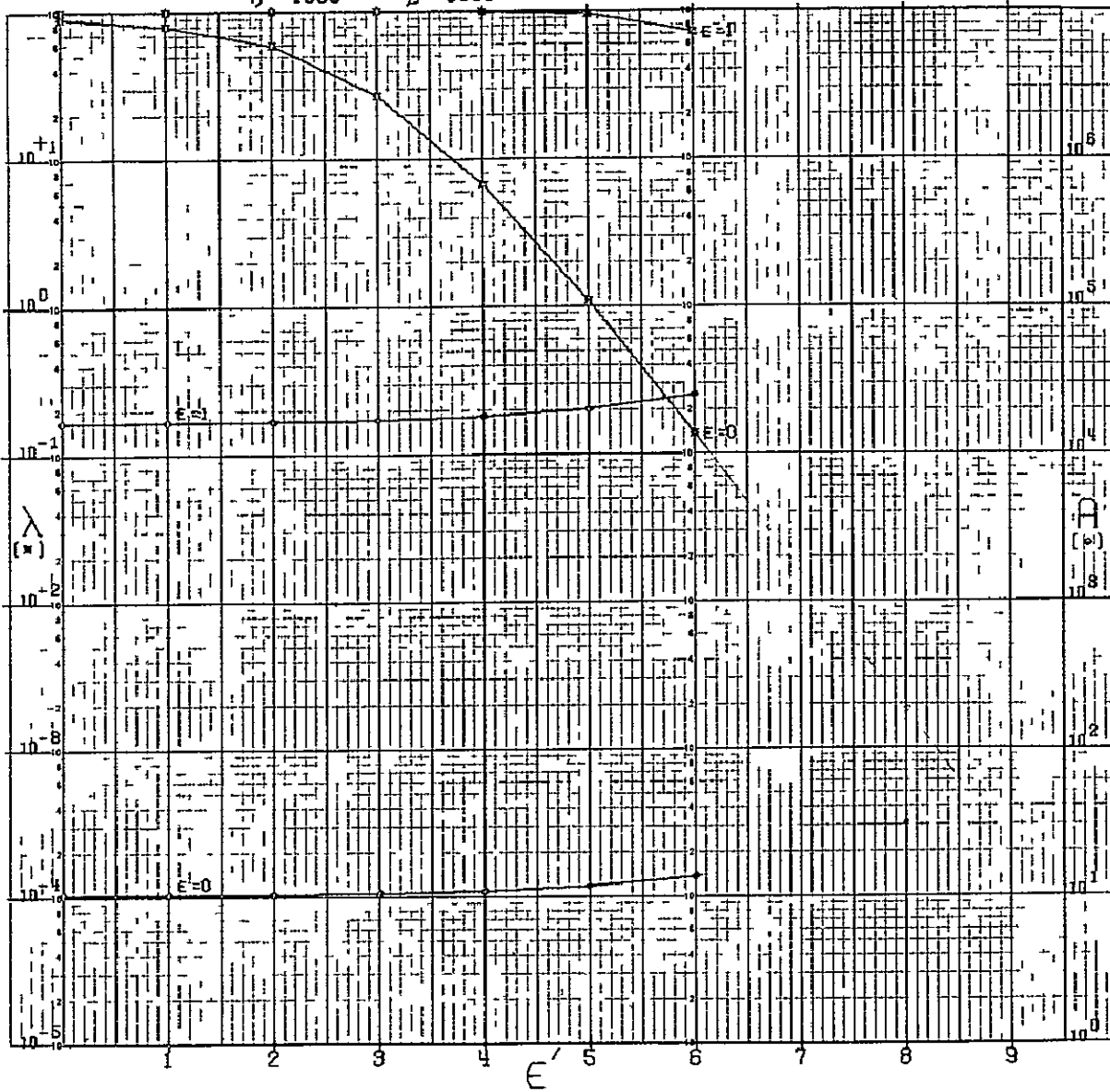
N-13

CODE 11101D110000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY RCPB CODE 542, GSFC)



N=19

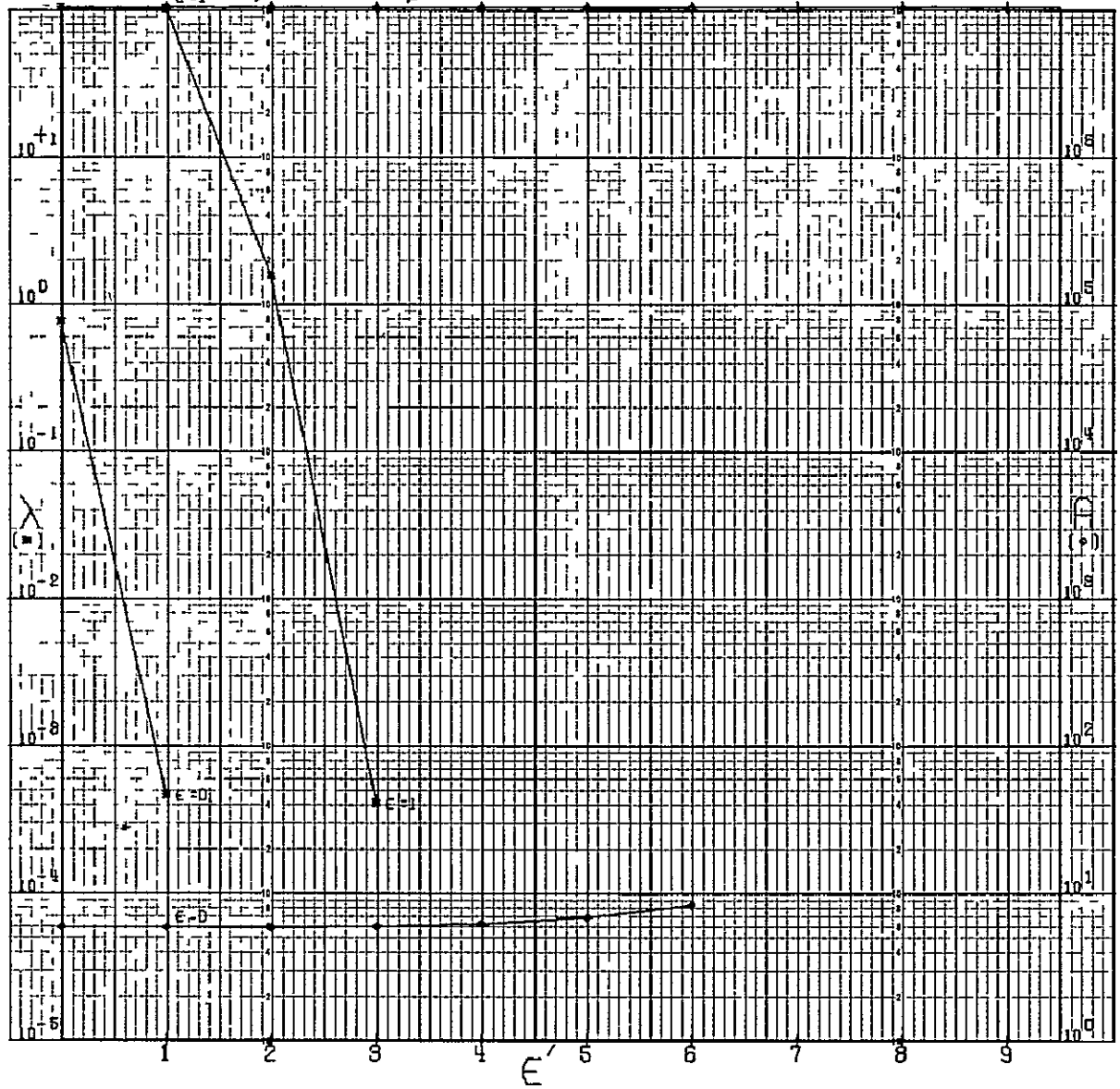
CODE 1110101100000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 10000$

(DRAWN BY RCPB, CODE 542, GSFC)



N = 13

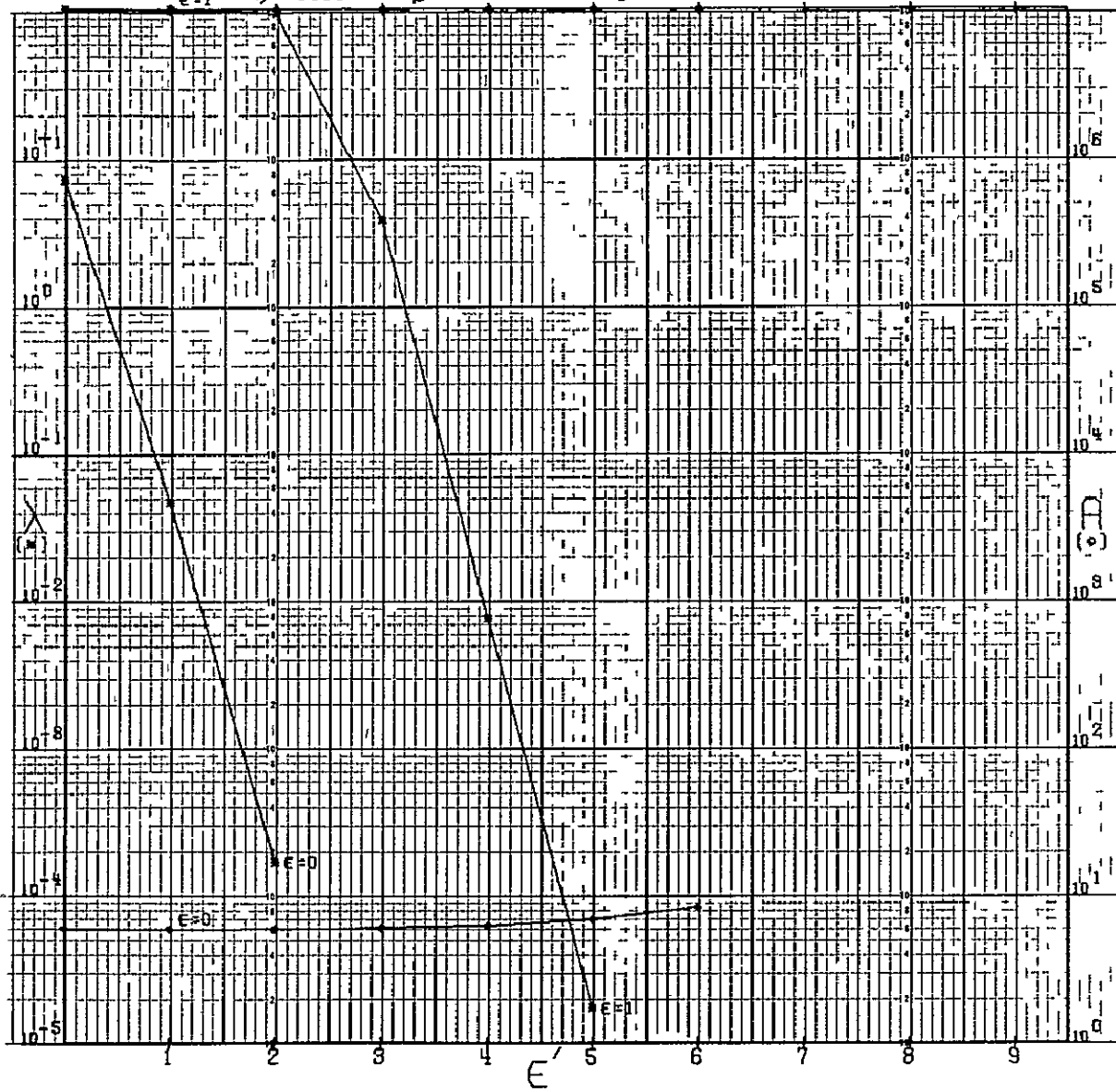
CODE 1110101100000

GSFC STANDARD

$\epsilon = 1$ $\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542 GSFC)



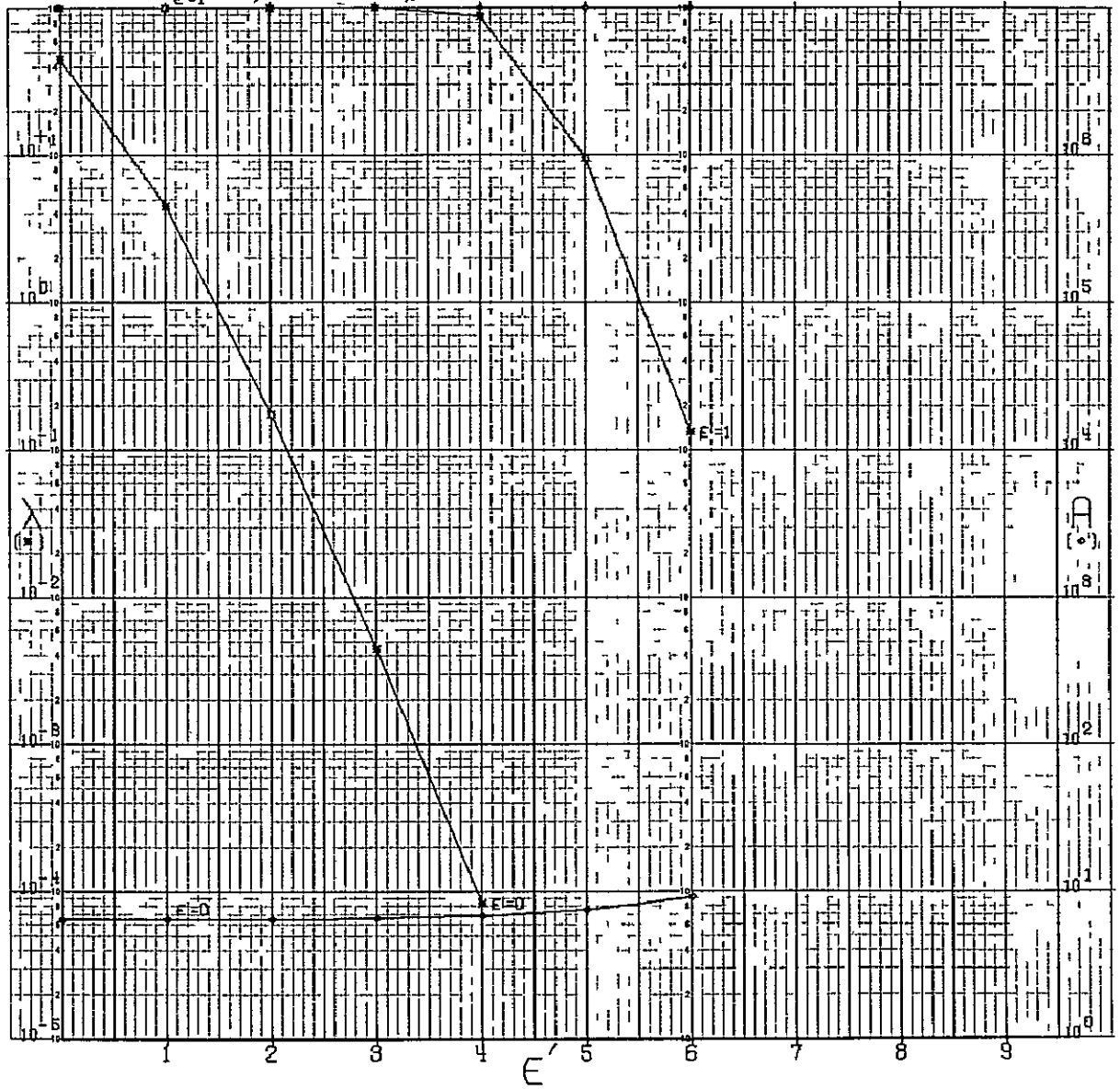
N=13

CODE 1110101100000
GSFC STANDARD

$\epsilon = 1$ $\eta = 0.0100$

$\beta = 10000$

(DRAWN BY ACPB CODE 542 GSFC)



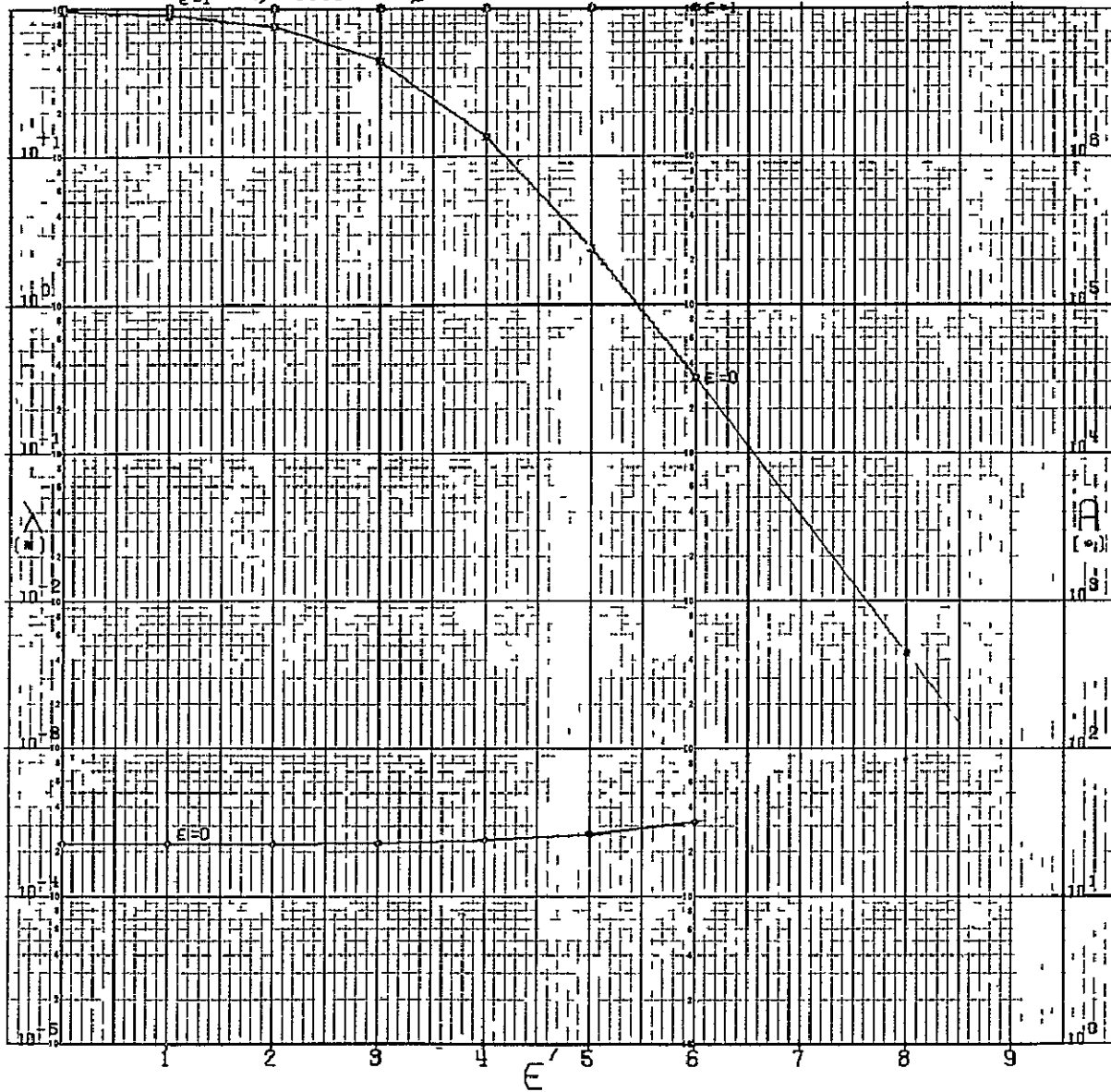
N = 13

CODE 1110101100000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY AOPB CODE 542, GSFC)



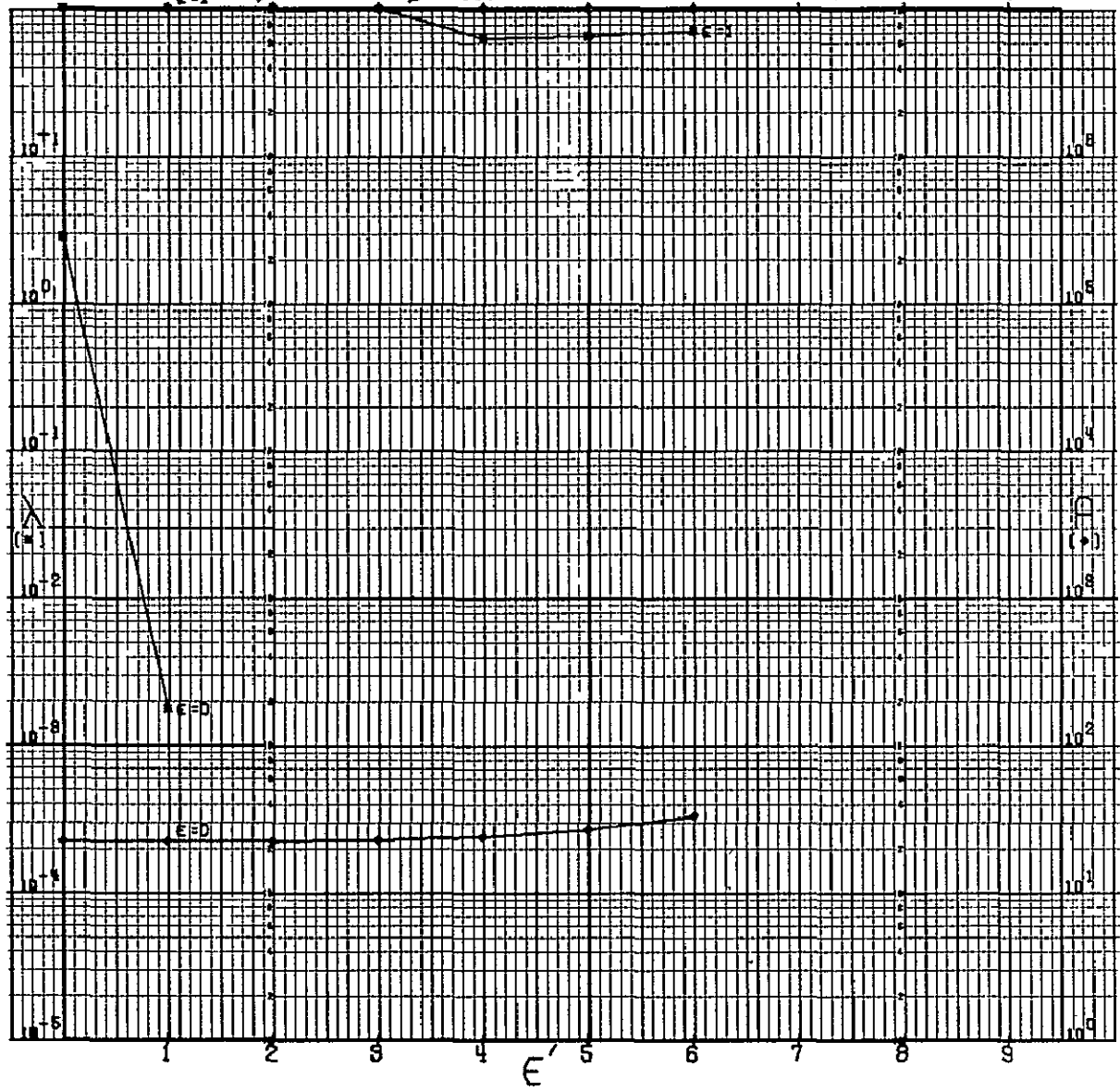
N = 19

CODE 1110101100000
GSFC STANDARD

$\epsilon = 1$ $\eta = -0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 512, GSFC)



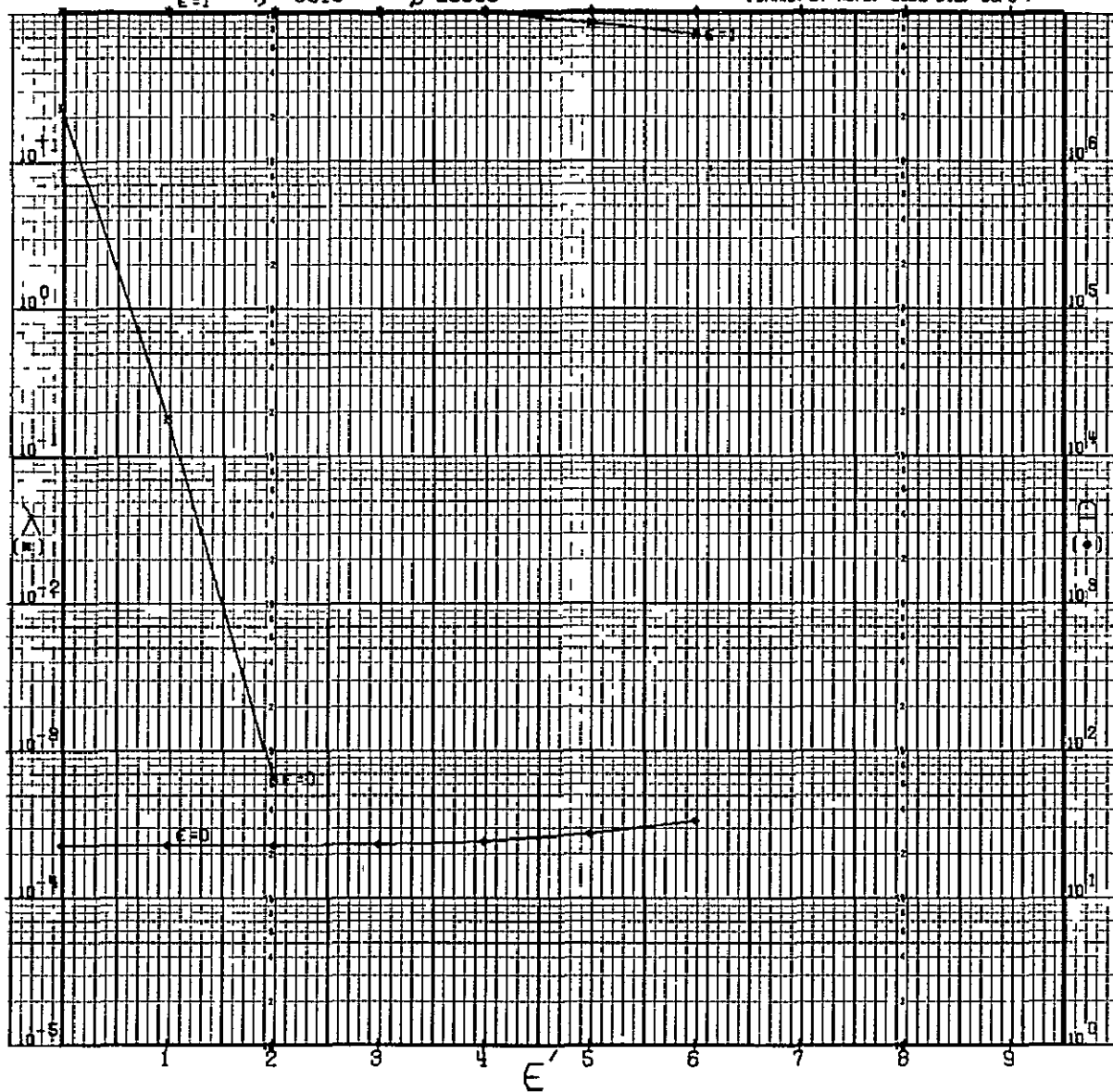
N=13

CODE 1110101100000
GSFC STANDARD

$\epsilon = 1$ $\eta = .0010$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



X

N=18

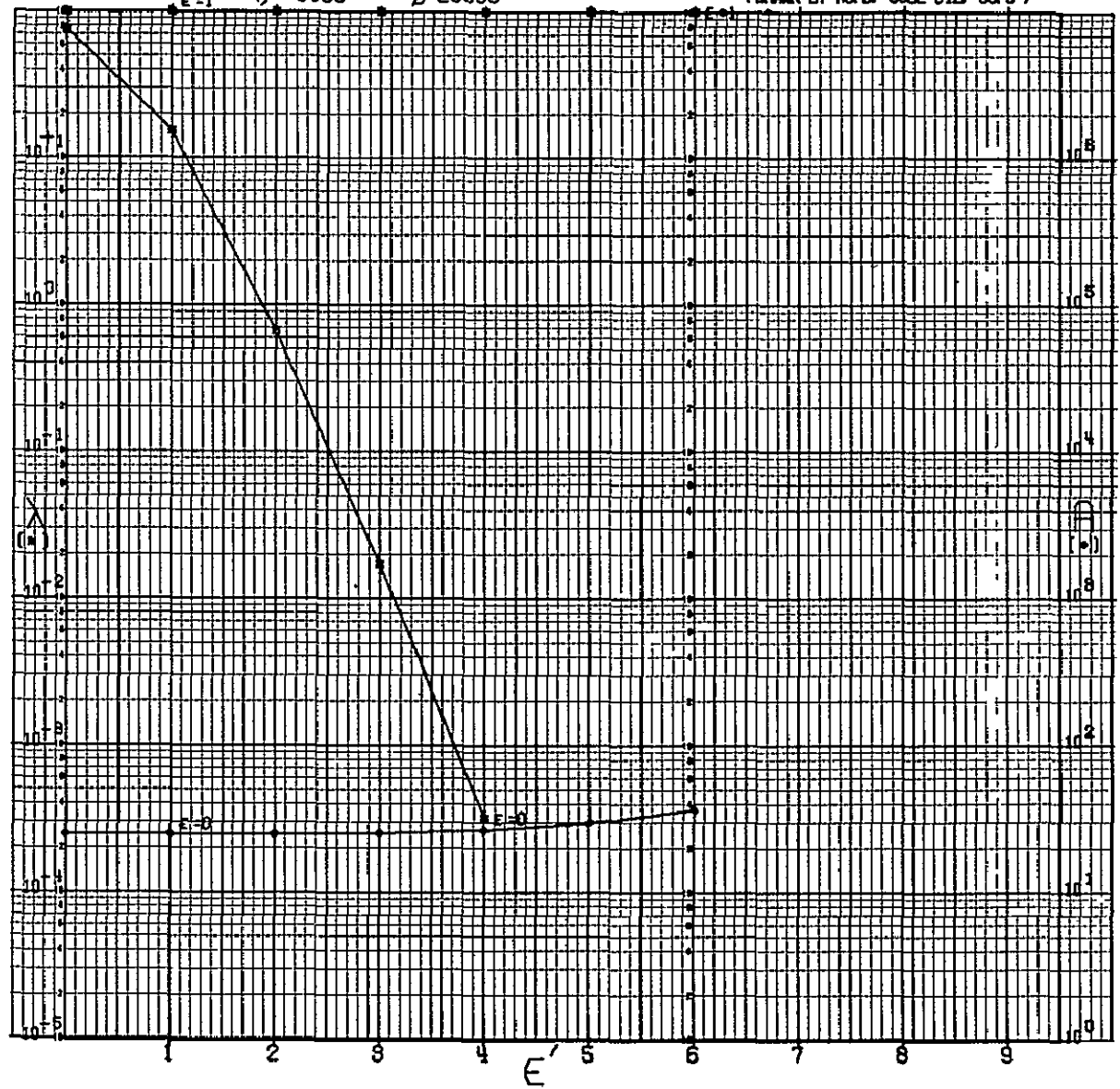
CODE 1110101100000

GSFC STANDARD

$\epsilon = 1$ $\eta = 0.100$

$\beta = 20000$

(DRAWN BY ROPL CODE 542, GSFC)



N = 19

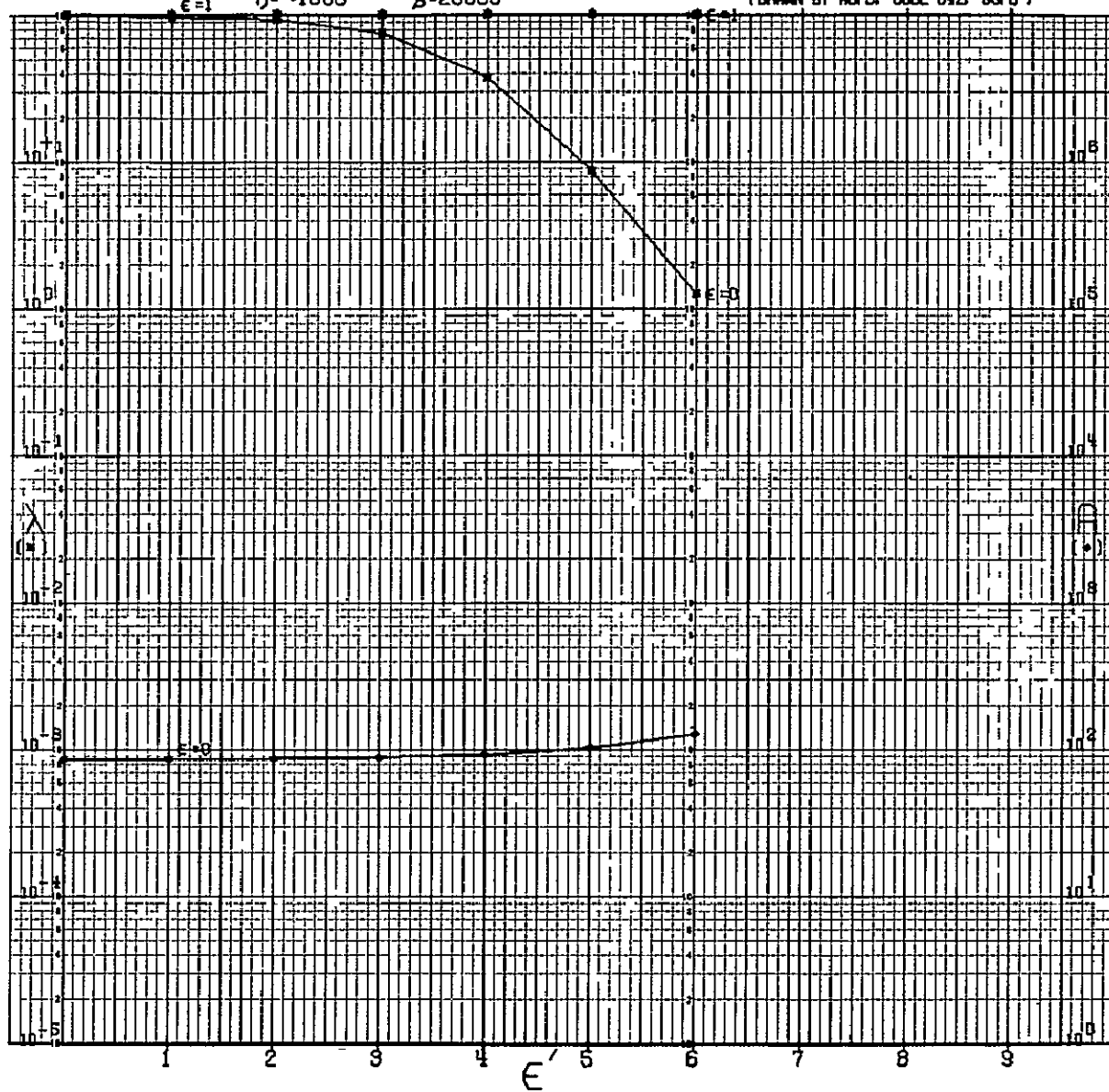
CODE 1110101100000

GSFC STANDARD

$\epsilon = 1$ $\eta = 1000$

$\beta = 20000$

(DRAWN BY ADPS. CODE 512, GSFC)



$$\mathbf{N} = \mathbf{14}$$

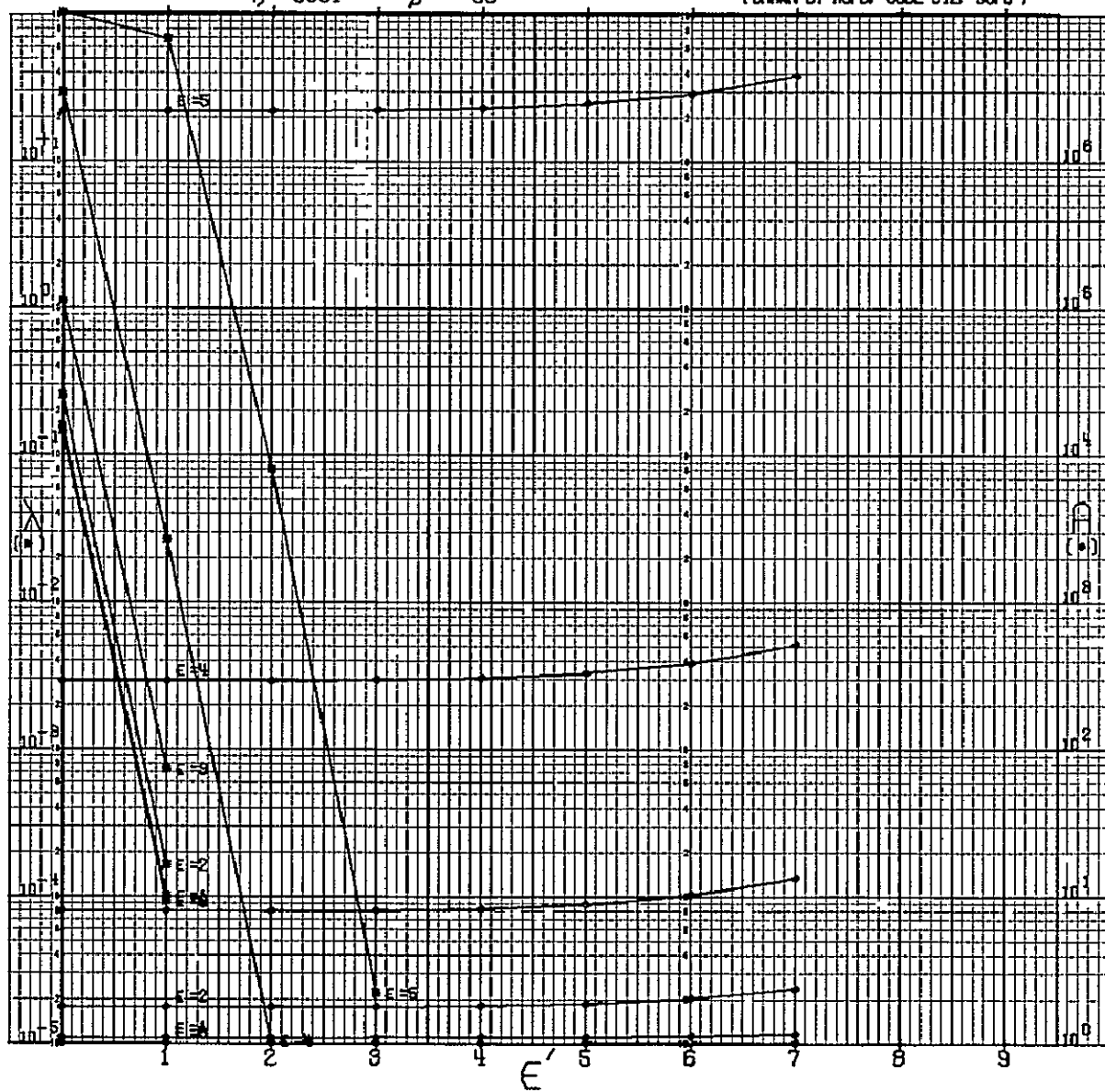
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = .0001$

$\beta = 50$

(DRAWN BY ROPE, CODE 542, GSFC)



N=14

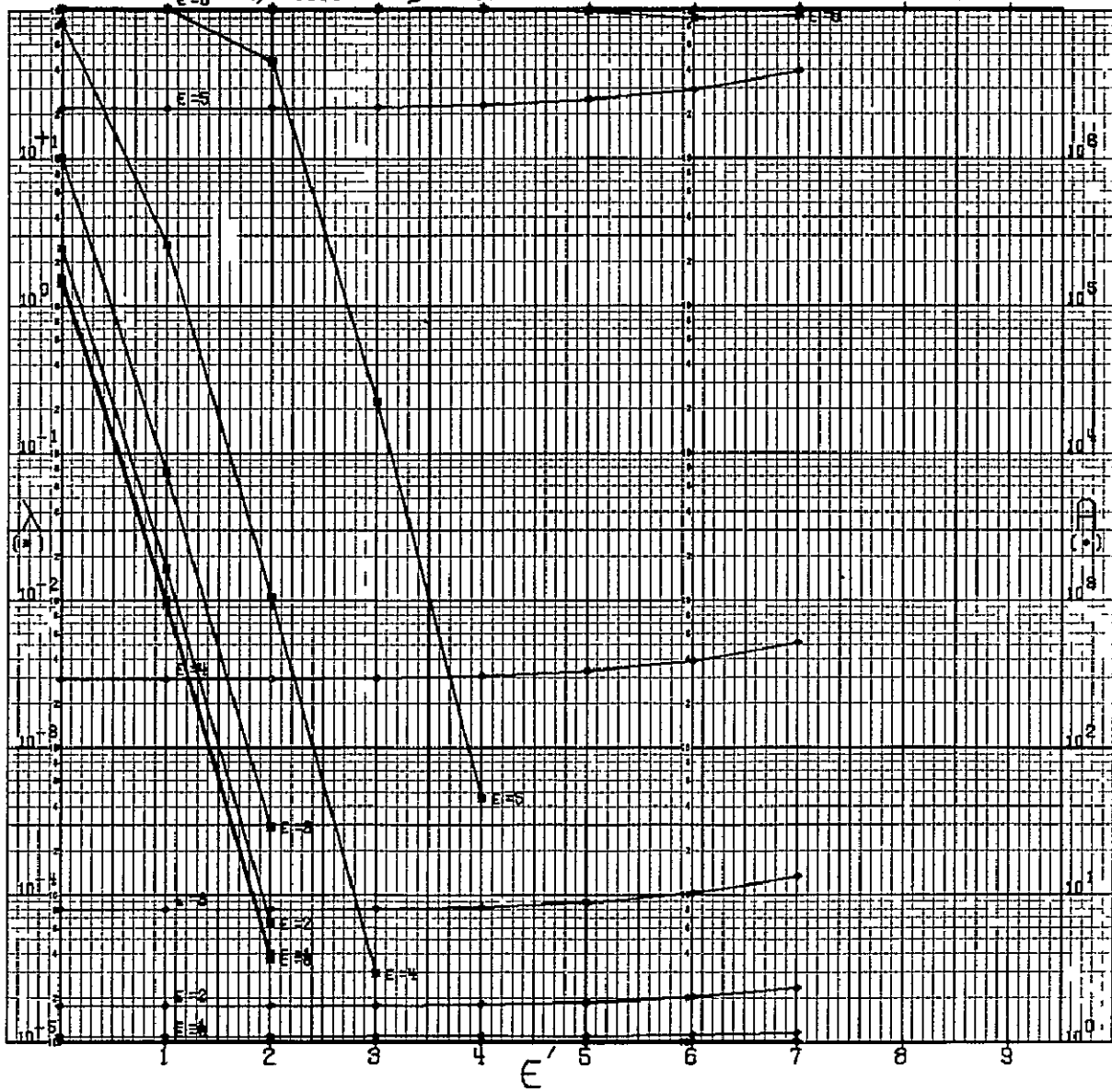
CODE 11100110100000

GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 14

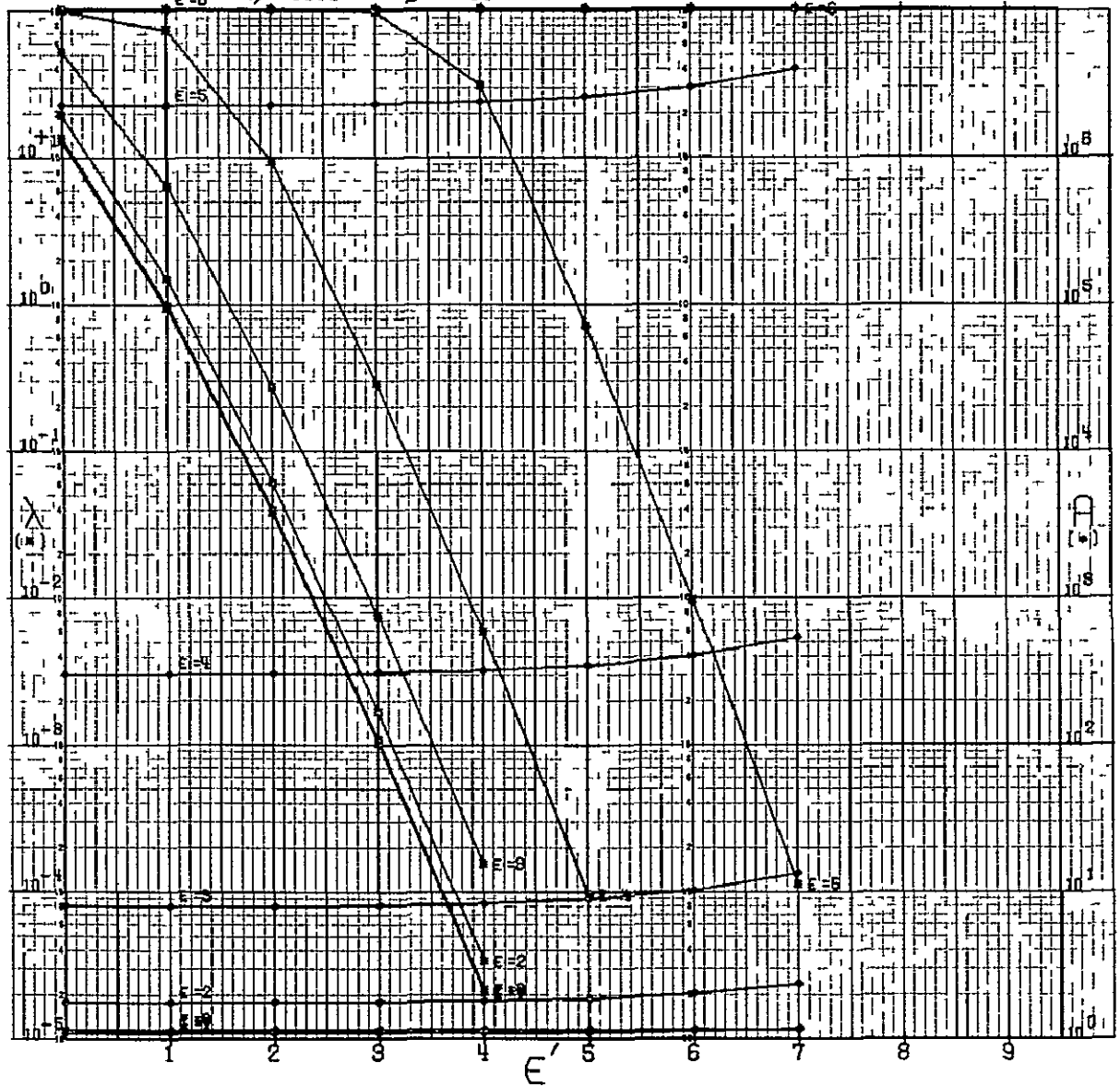
CODE 11100110100000

GSFC STANDARD

$\eta = 0.100$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



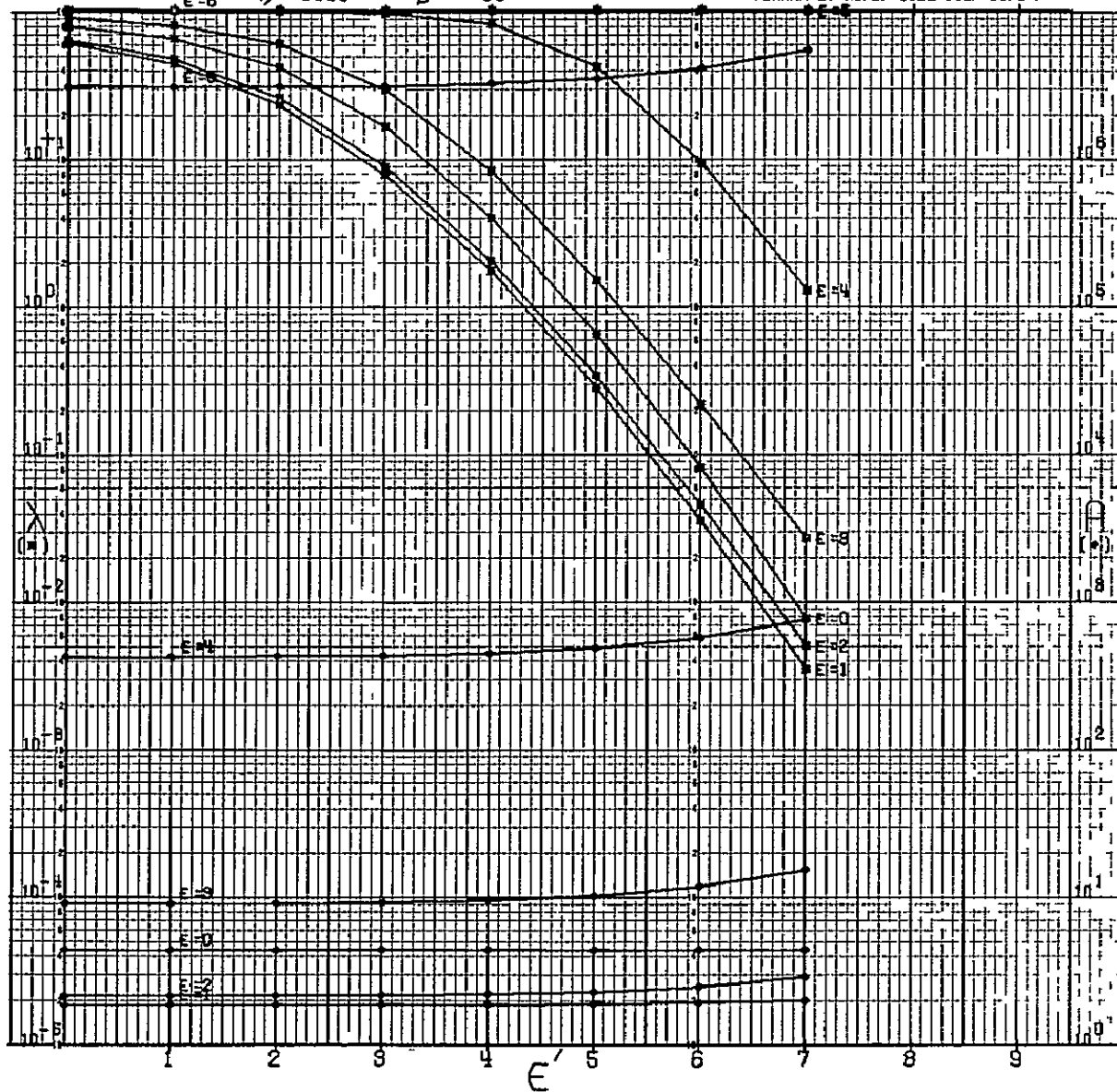
N = 14

CODE 11100110100000

GSFC STANDARD

 $\epsilon = 6$ $h = 1000$
$$B = 50$$

(DRAWN BY RCPB. CODE 542. GSCC)



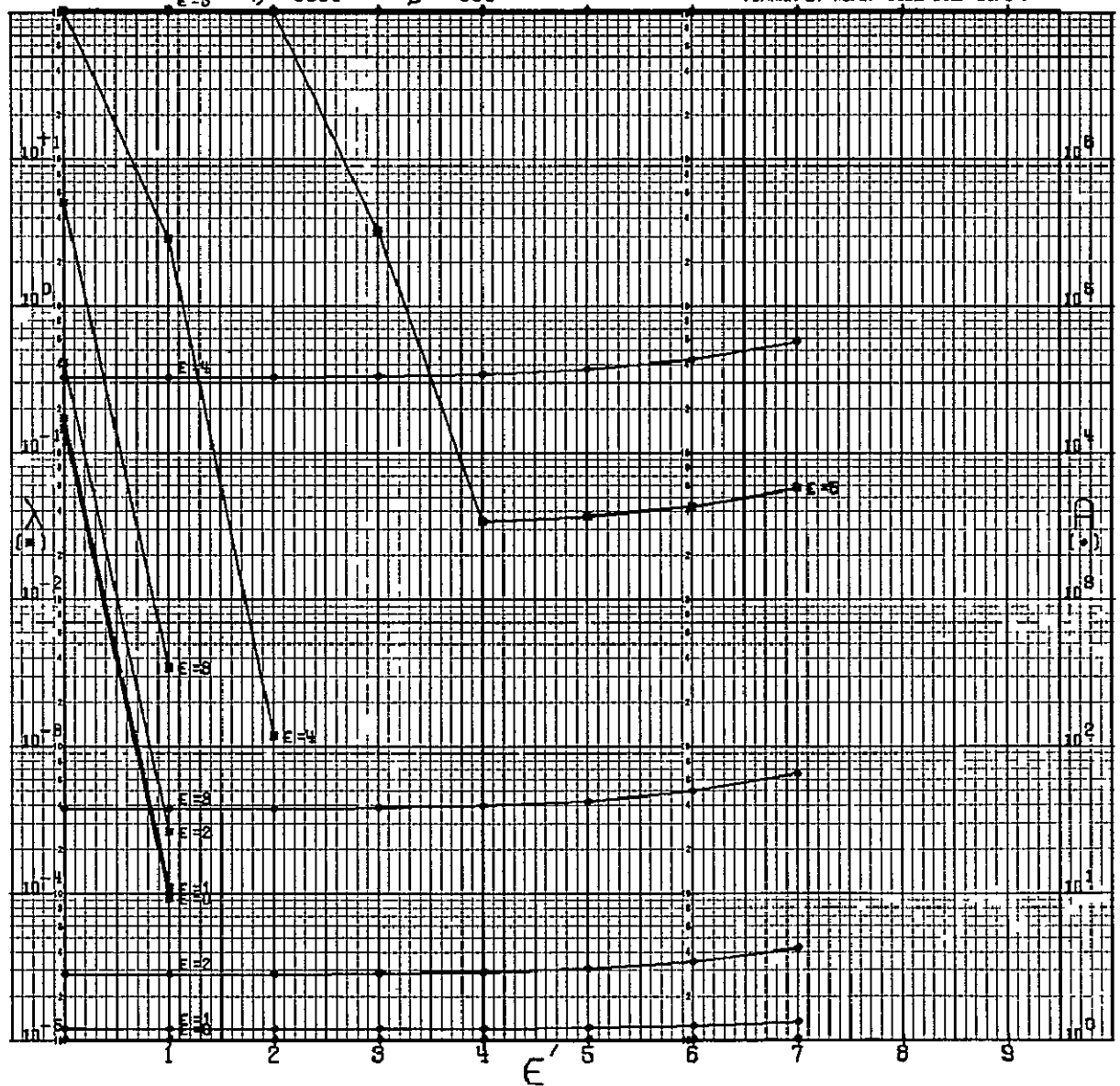
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



N=14

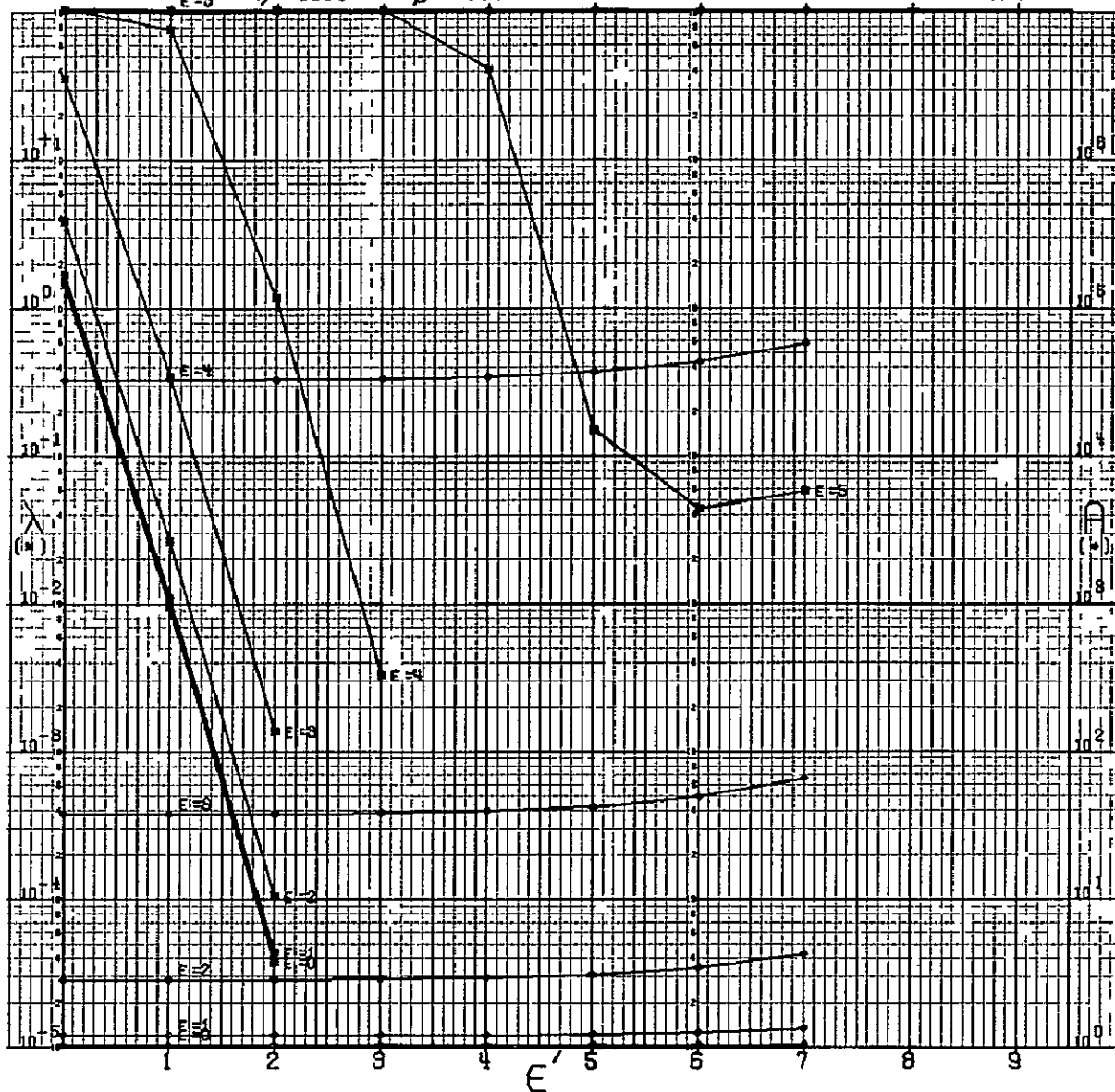
CODE 11100110100000

GSFC STANDARD

$\epsilon = 5$ $\eta = +0010$

$\beta = 100$

(DRAWN BY ROPS, CODE 542, GSFC)



N = 14

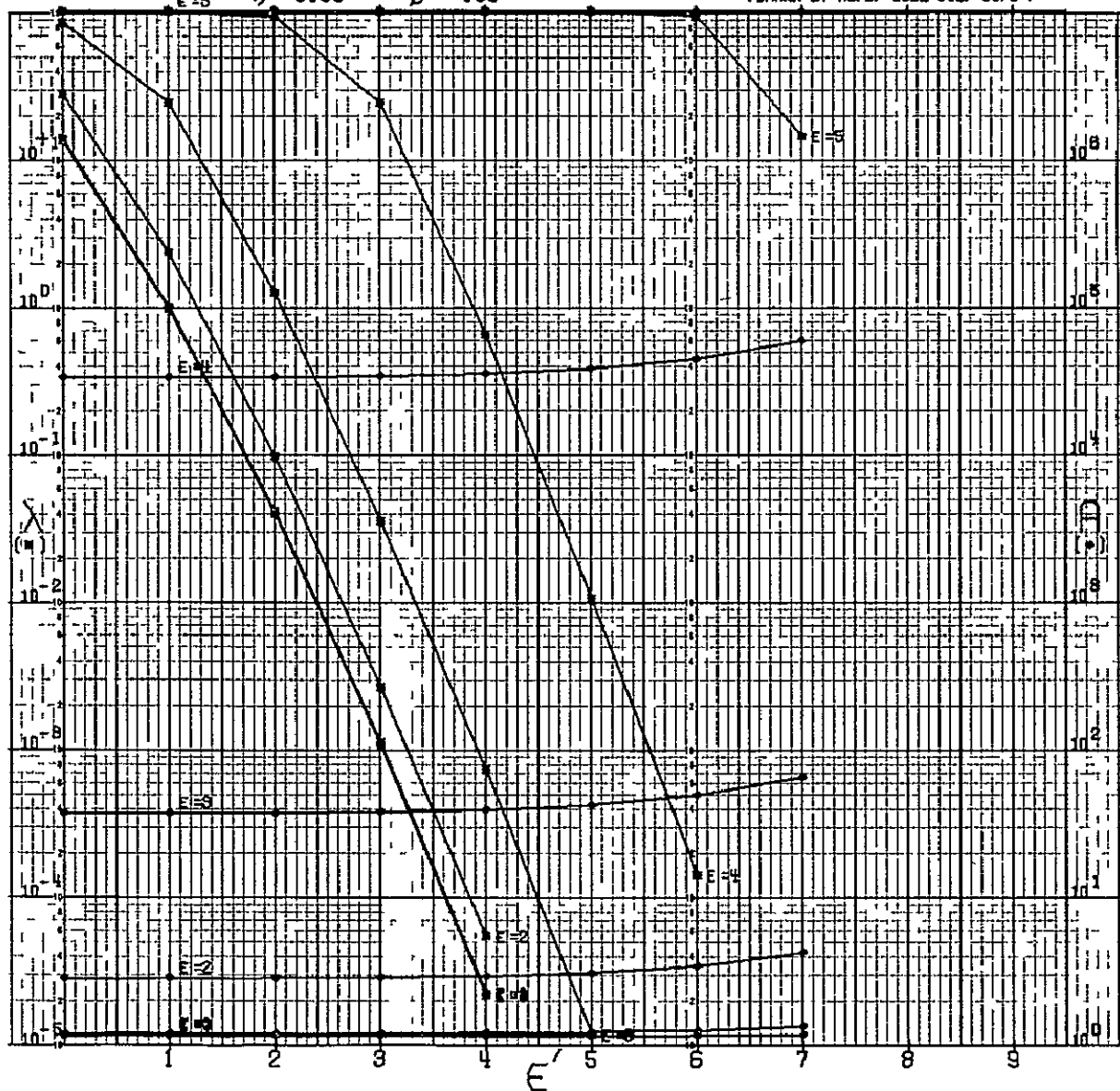
CODE 11100110100000
GSFC STANDARD

$\epsilon = 5$

$\eta = 0.100$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 14

CODE 11100110100000

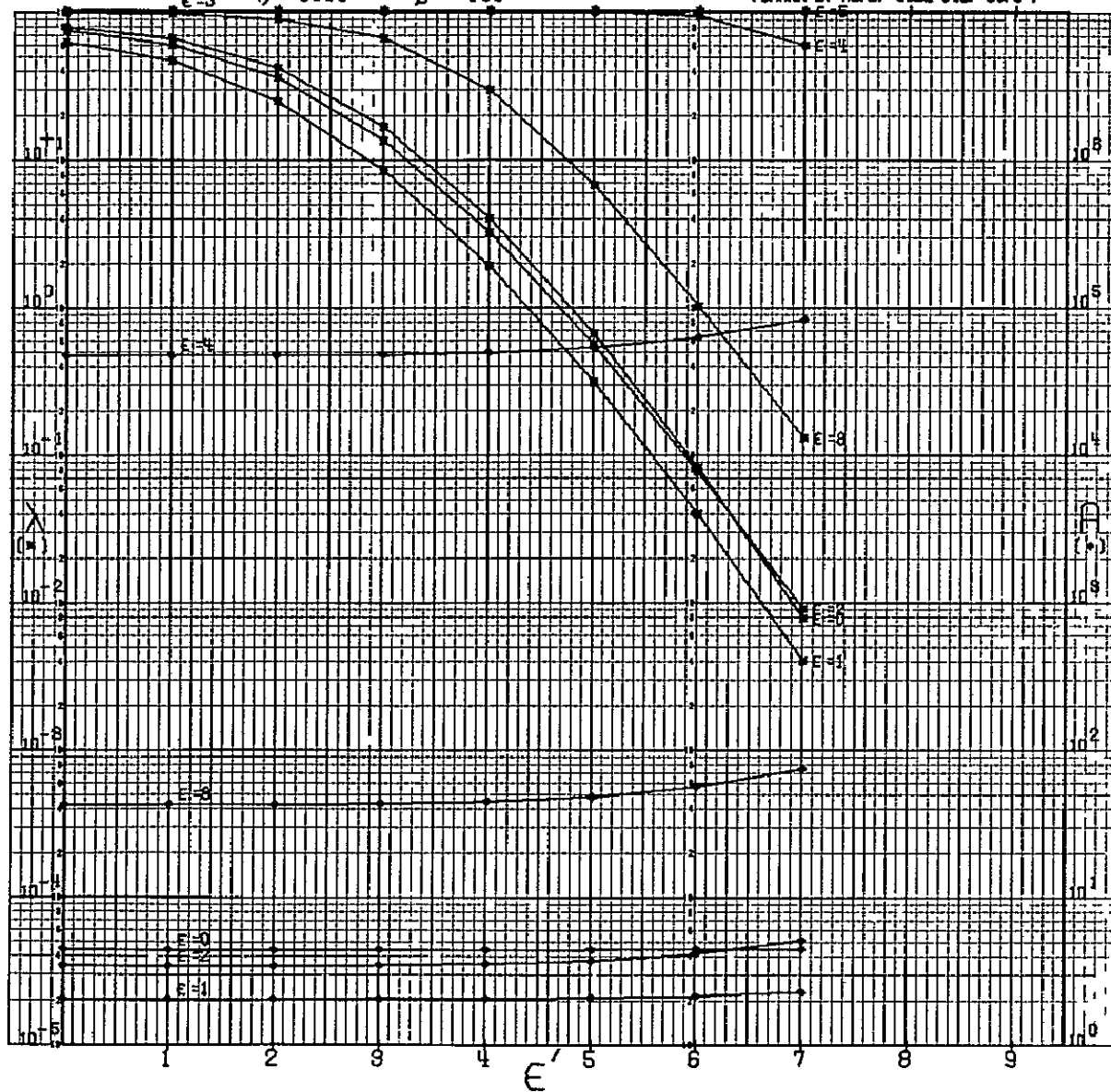
GSFC STANDARD

$\epsilon = 5$

$\eta = 1000$

$\beta = 100$

(DRAWN BY ADP, CODE 542, GSFC)



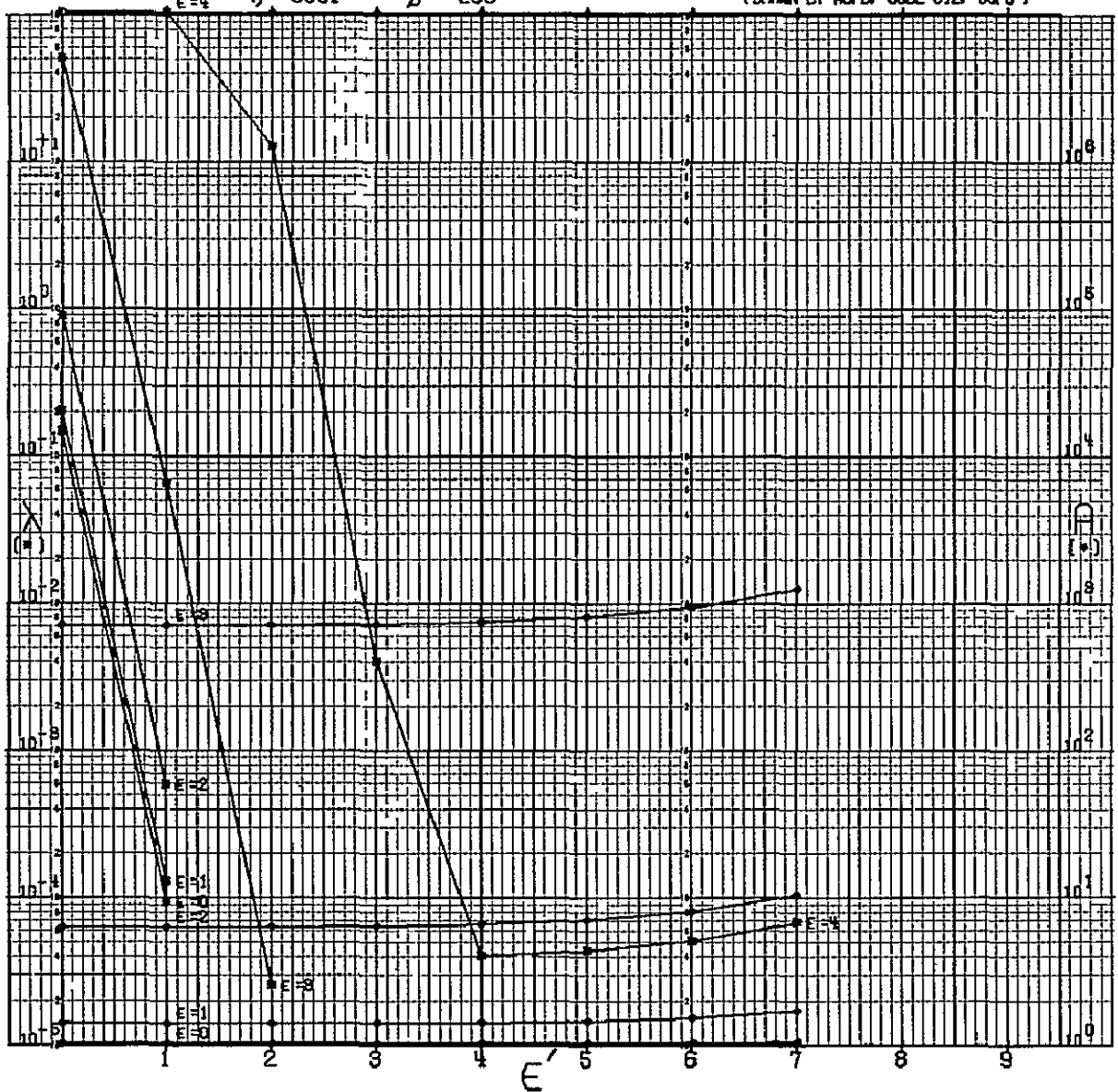
N = 14

CODE 11100110100000
GSFC STANDARD

$\epsilon = 4$ $\eta = .0001$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



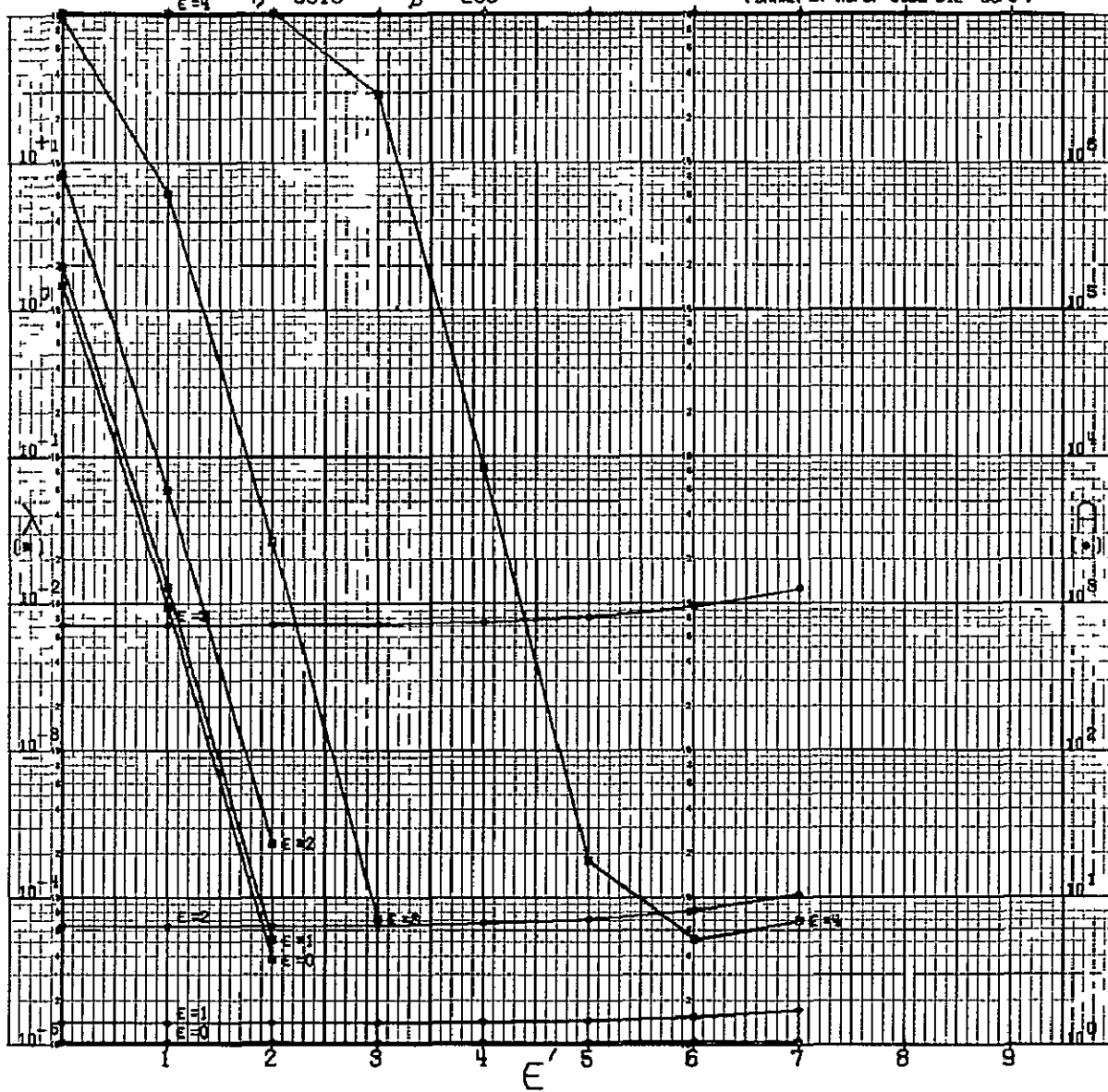
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542 GSFC)



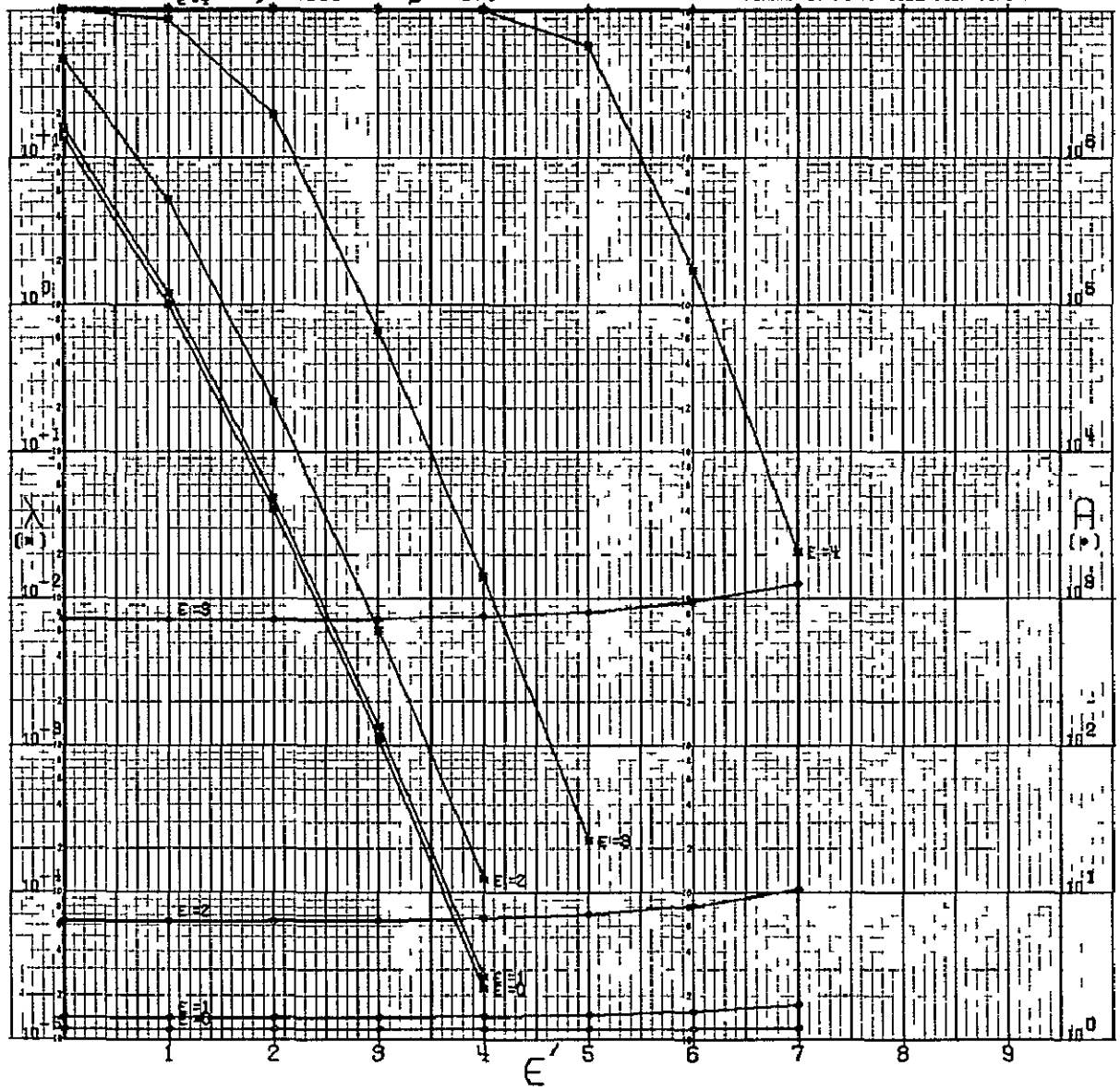
N = 14

CODE 11100110100000
GSFC STANDARD

$\epsilon = 4$ $\eta = 0.100$

$\beta = 200$

(DRAWN BY ROFB, CODE 542, GSFC)



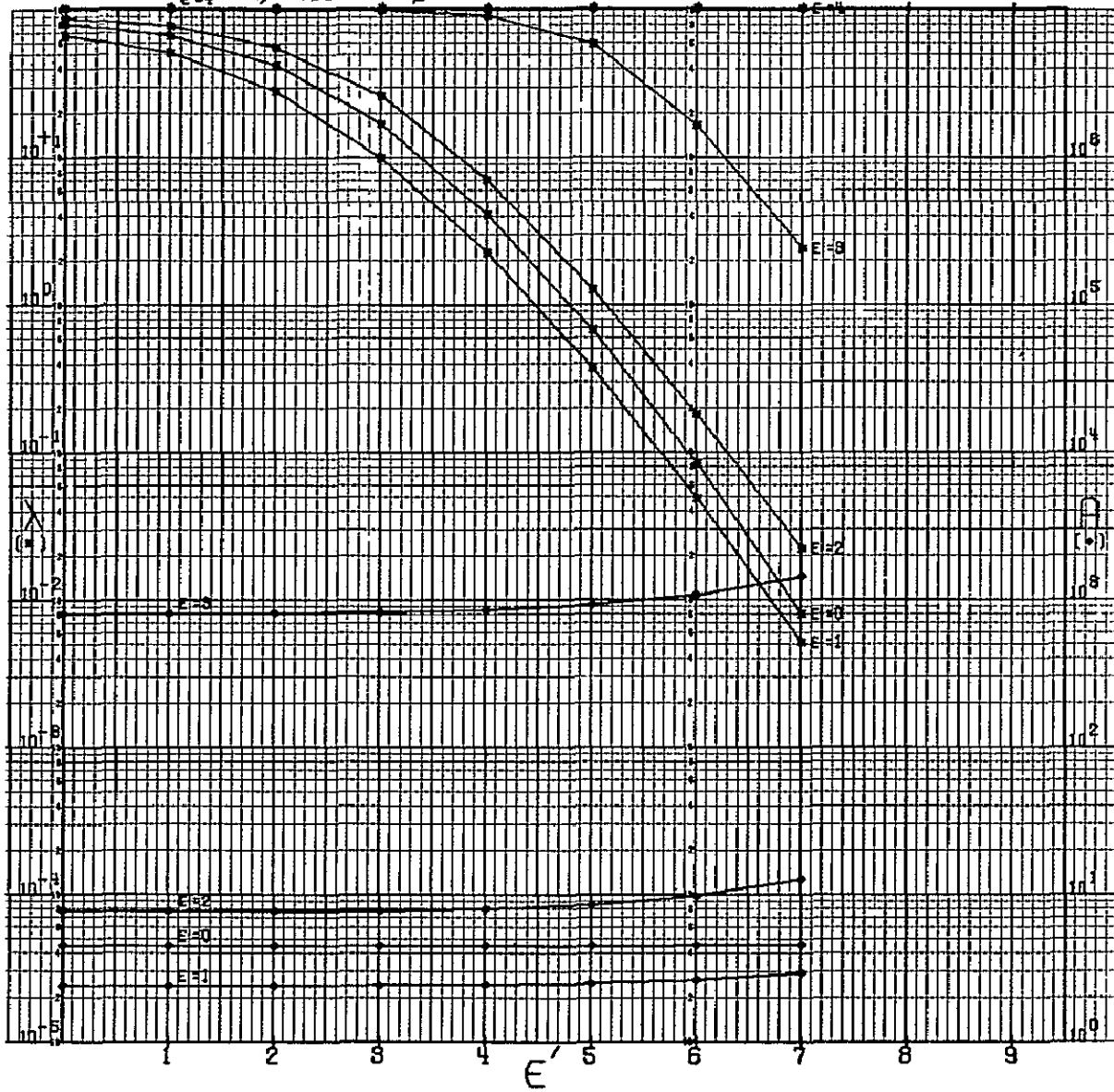
N = 14

CODE 11103110100003
GSFC STANDARD

$\epsilon = 4$ $\eta = 1000$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSFC)



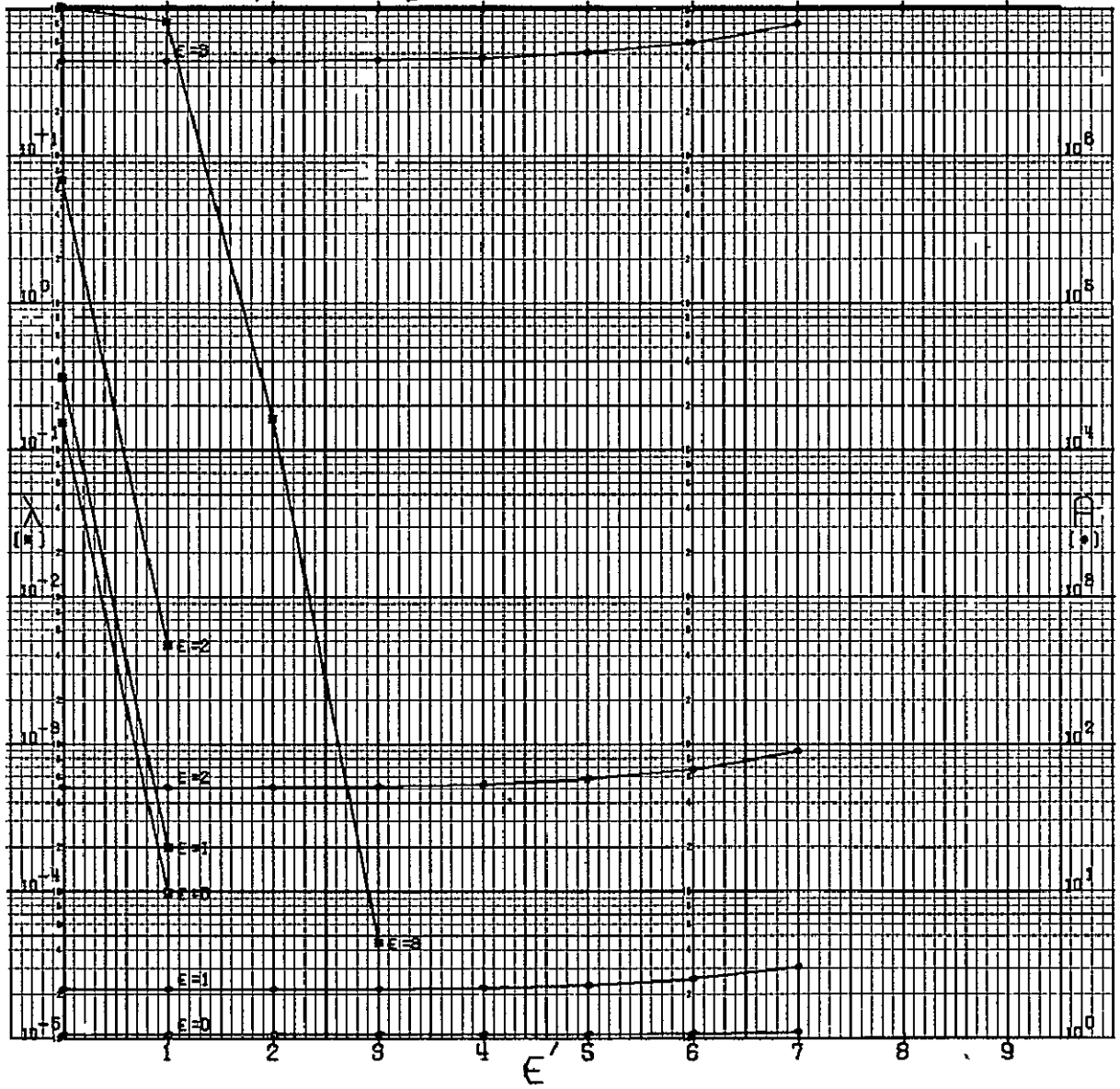
N=14

CONE 11100110100000
GSFC STANDARD

$\eta = .0001$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



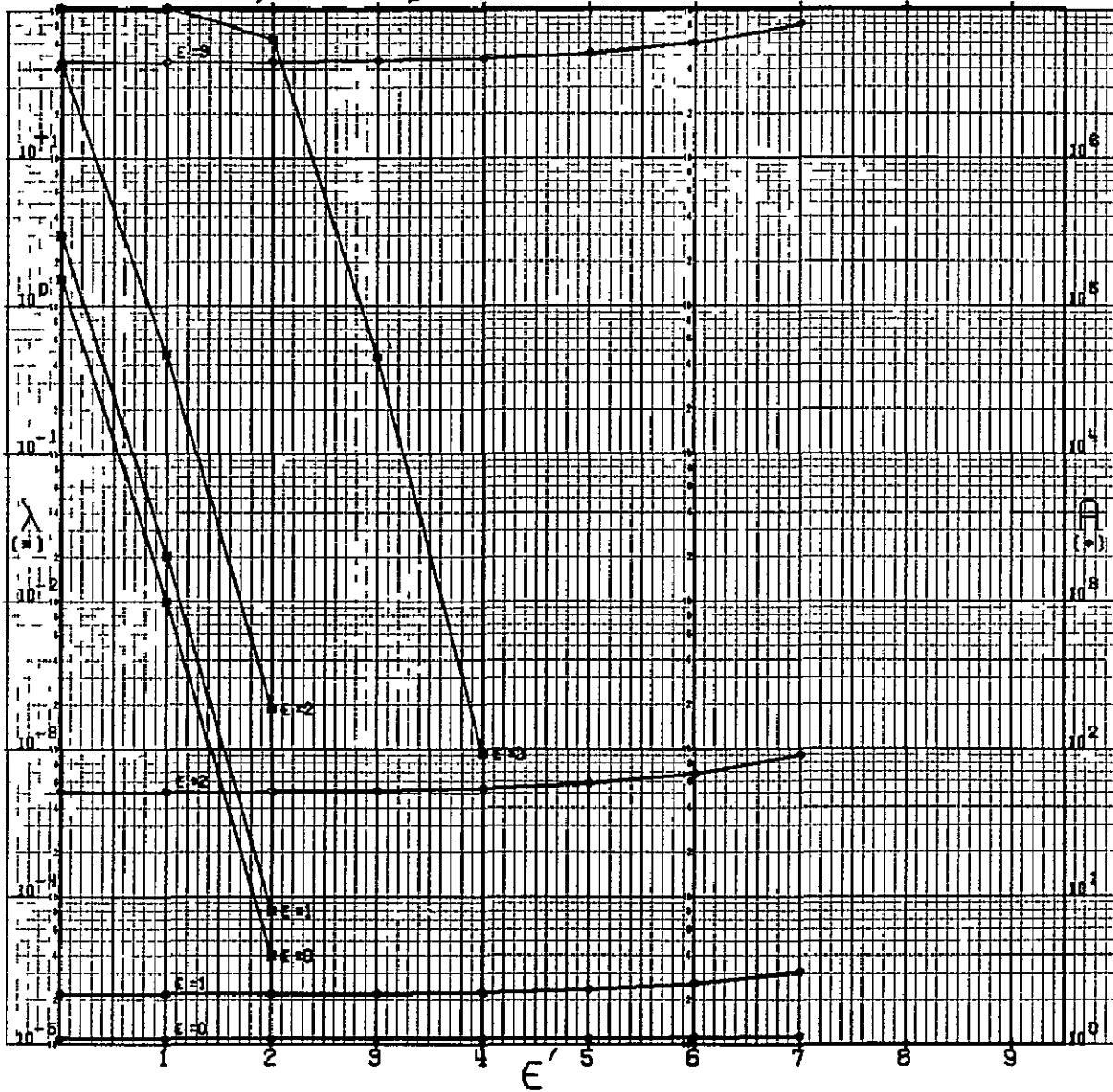
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0010$

$\beta = 500$

(DRAWN BY ACPB, CODE 542, GSFC)



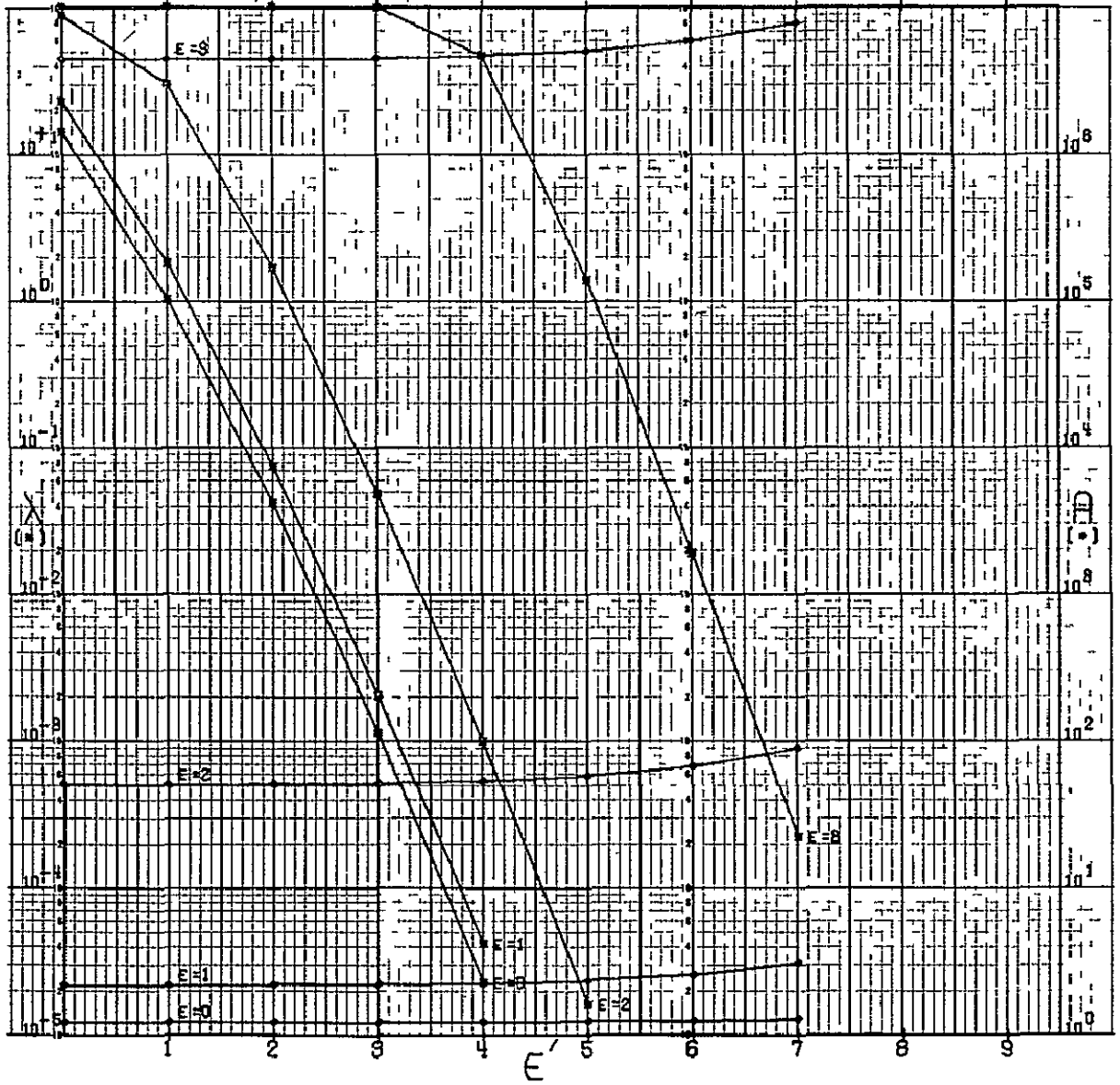
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 500$

(DRAWN BY ROPE, CODE 542, GSFC)



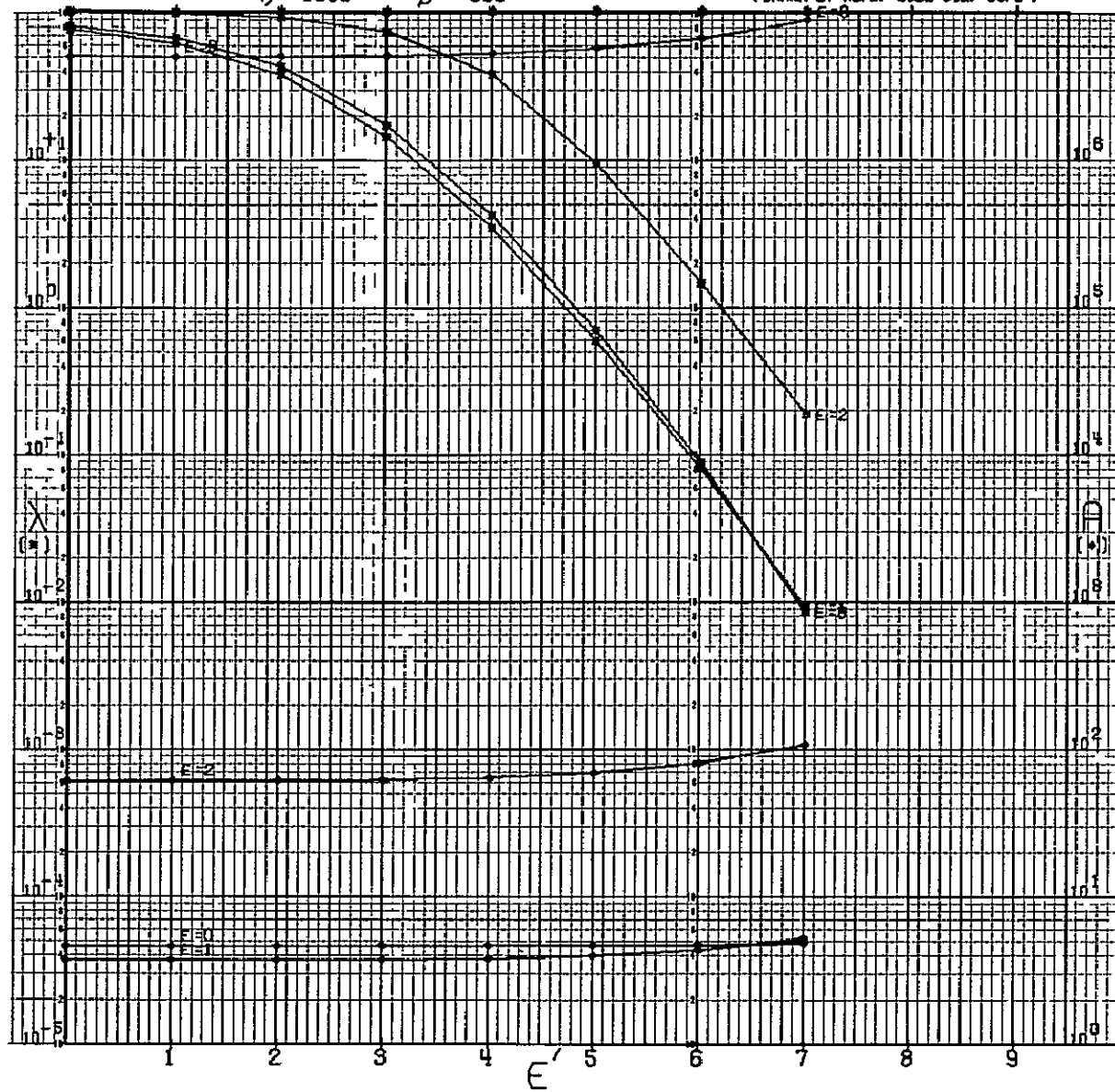
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



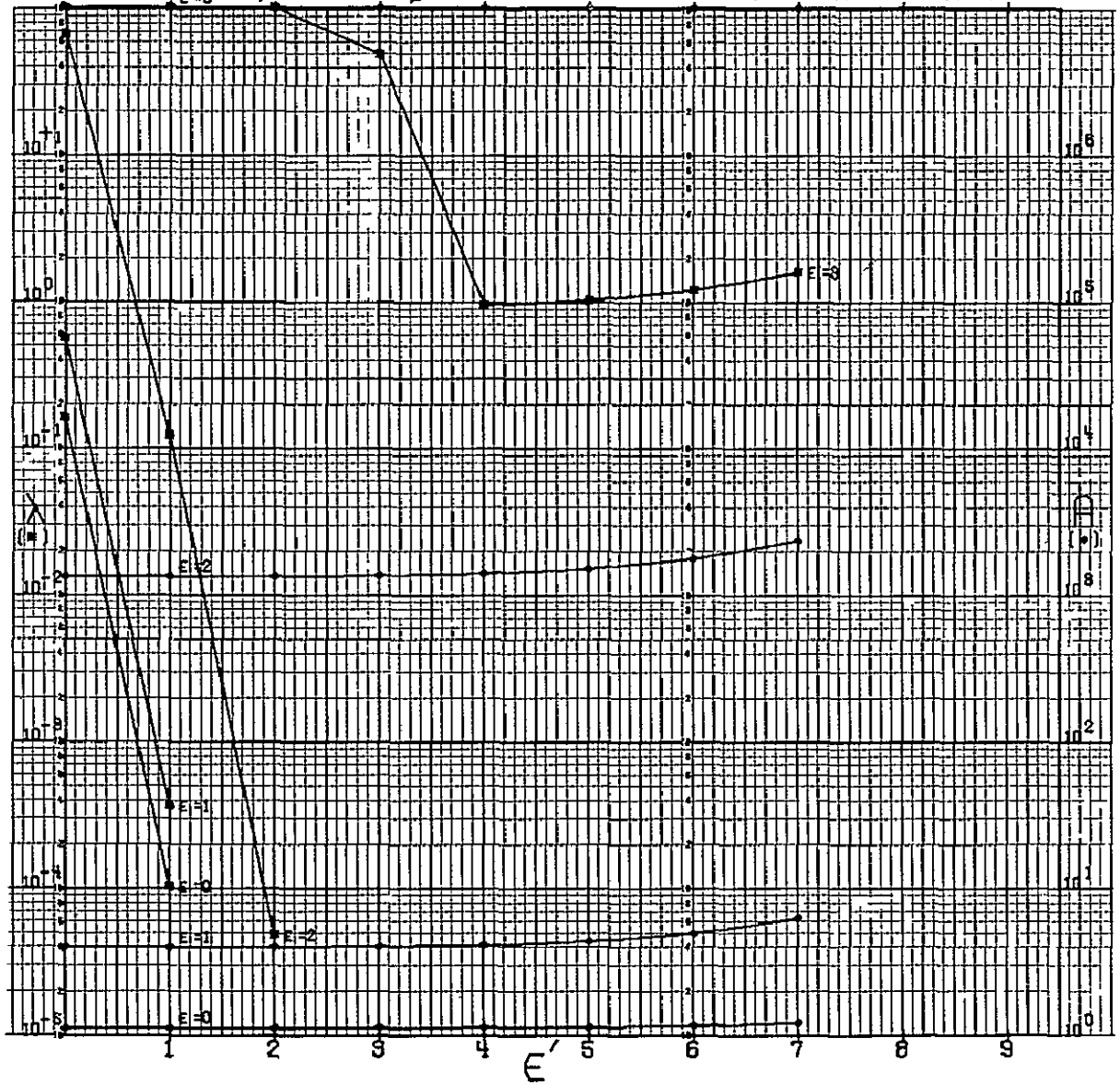
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = +0001$

$\beta = 1000$

(DRAWN BY ACPS, CODE 542, GSFC)



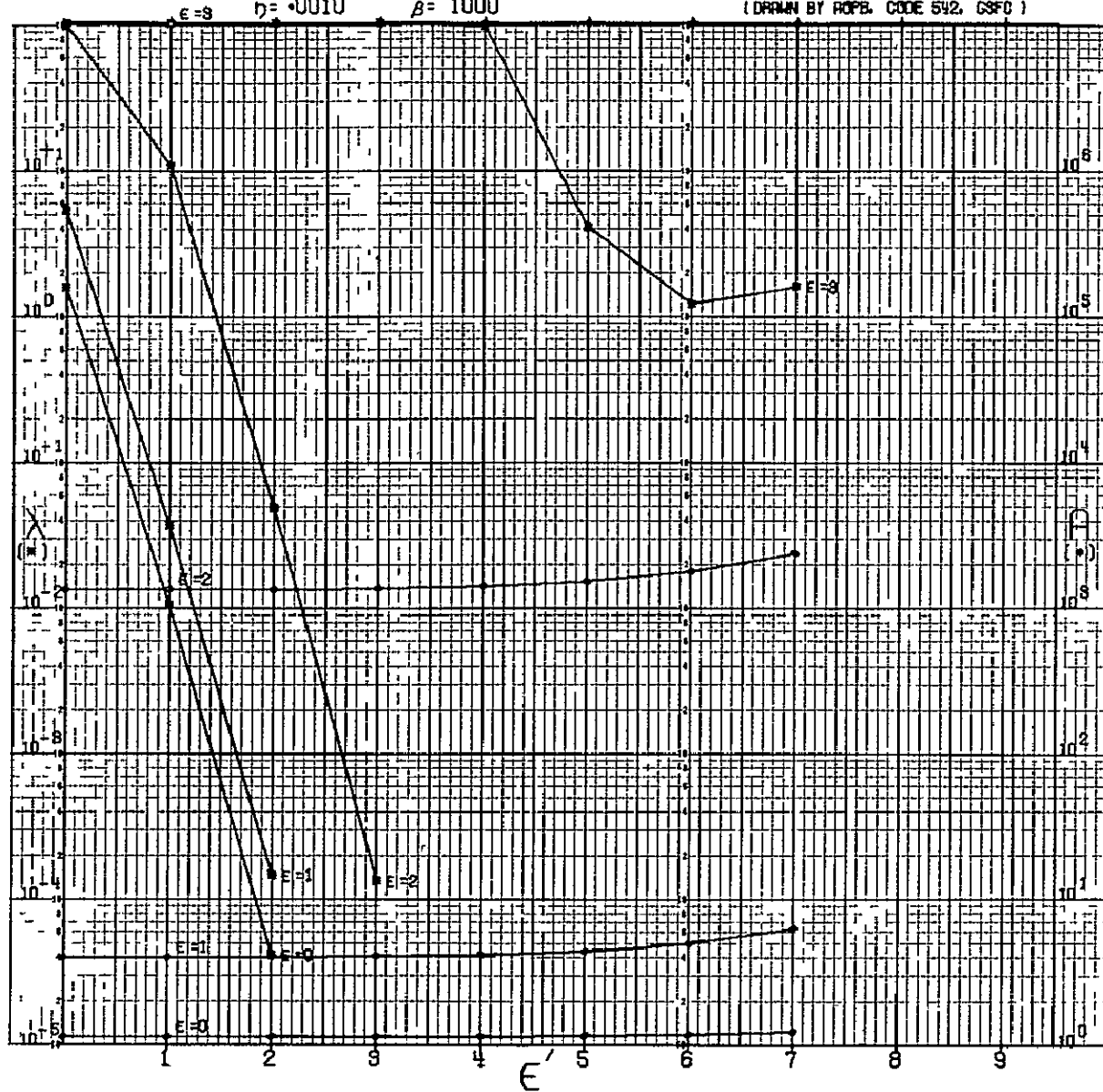
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY AOPB, CODE 542, GSFC)



$\gamma = 14$

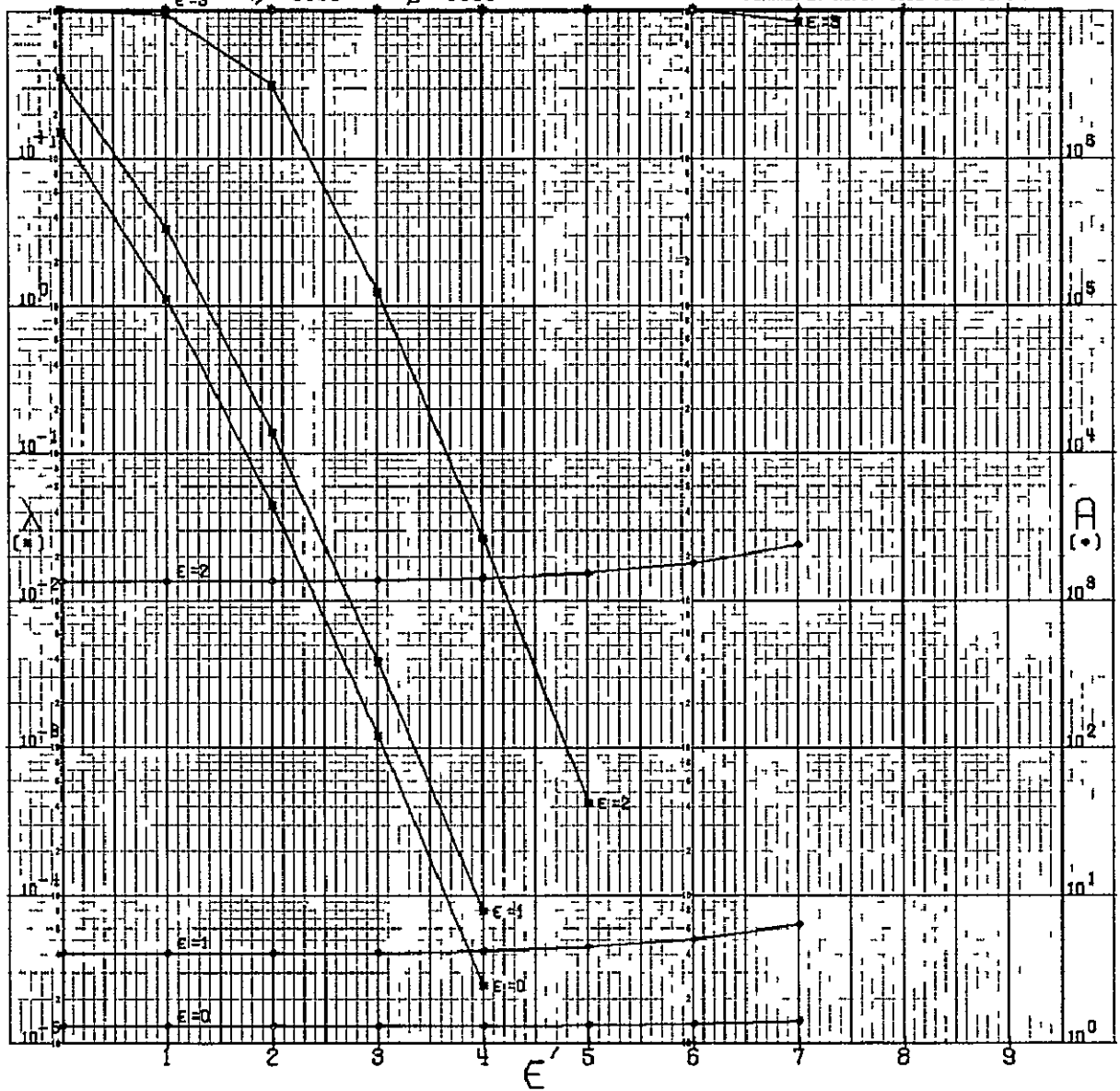
CODE 11100110100000

GSFC STANDARD

$\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



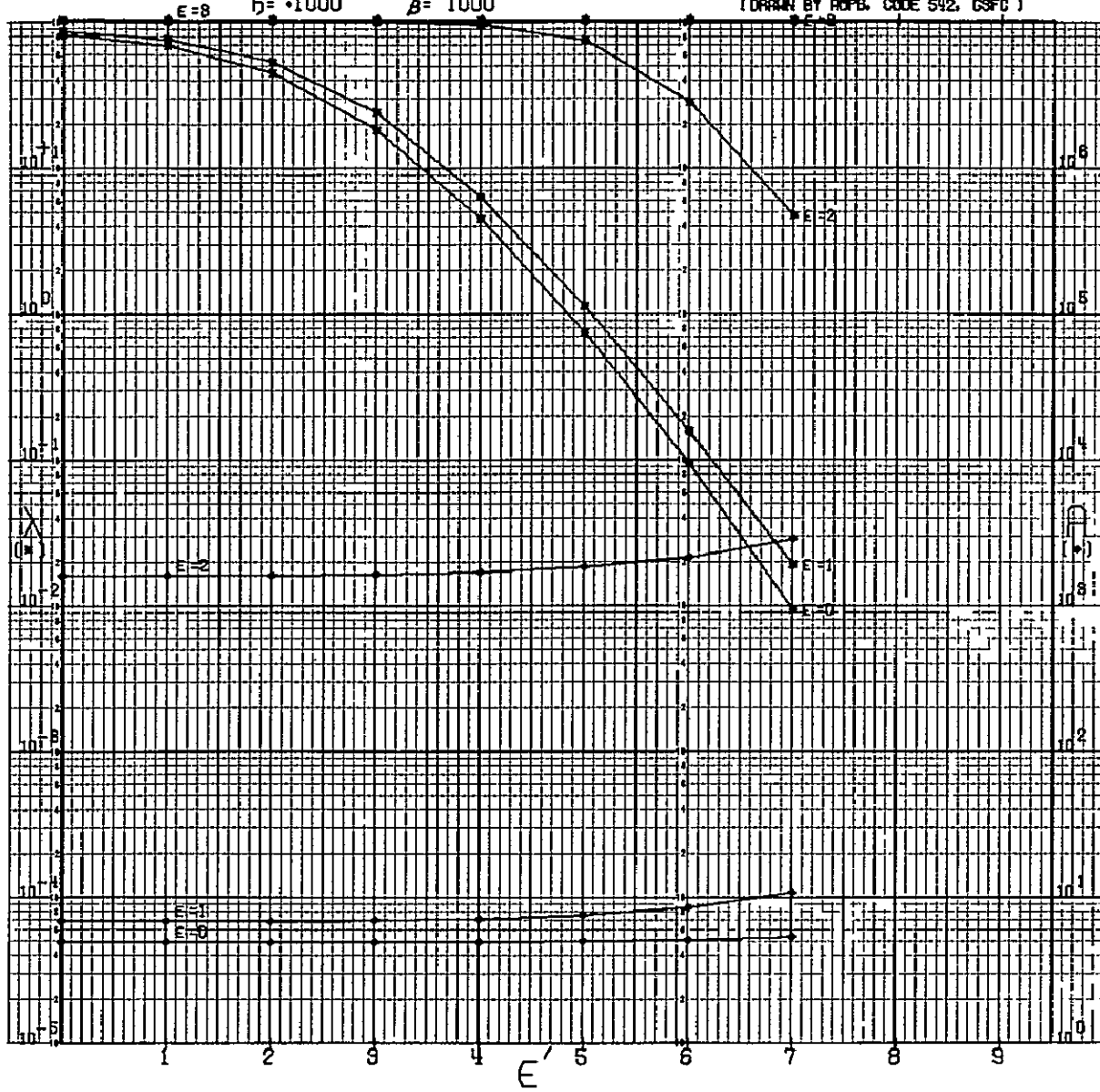
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY AOPB, CODE 542, GSFC)



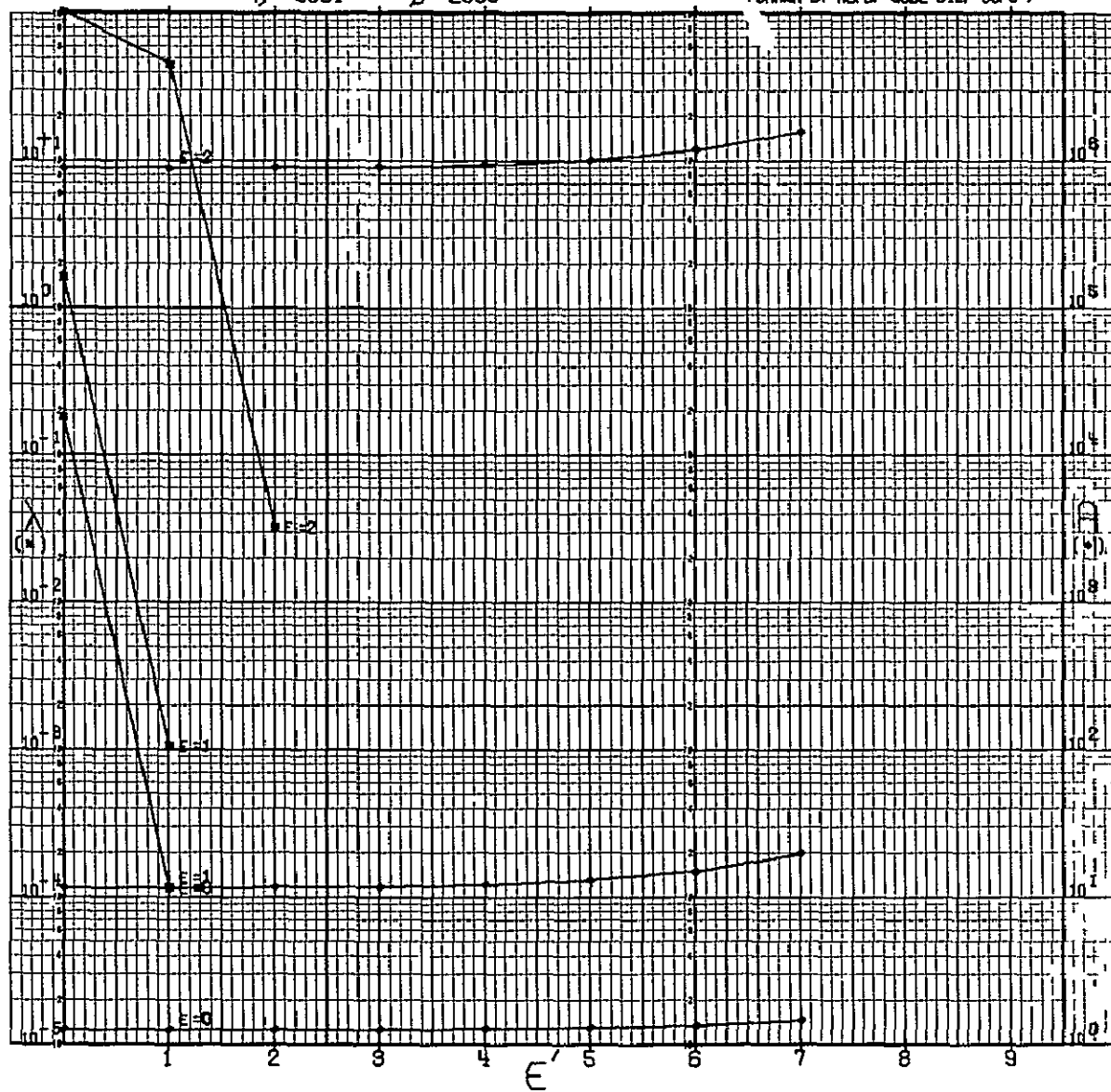
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 2000$

(DRAWN BY ACPB, CODE 542, GSFC)



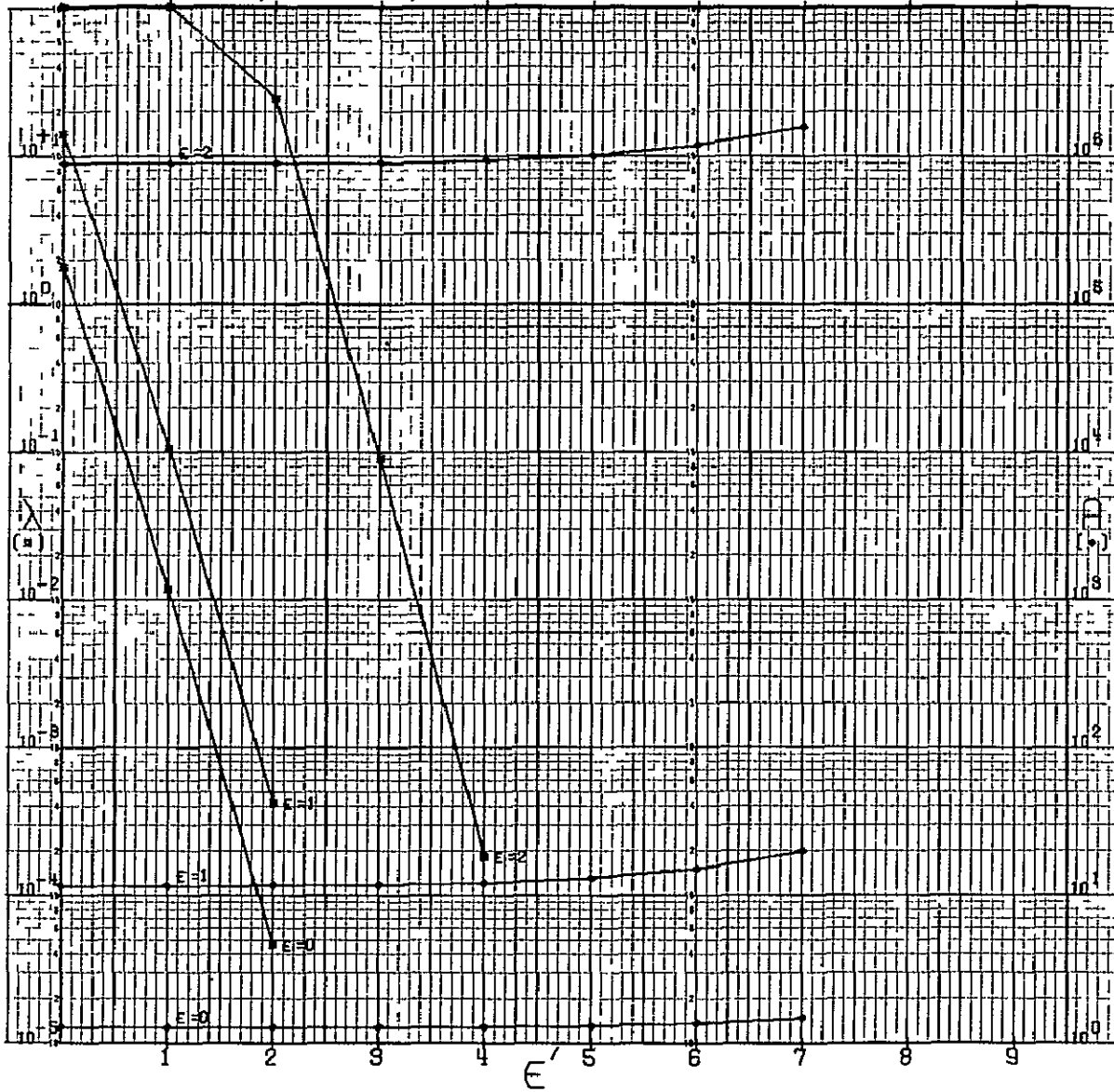
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



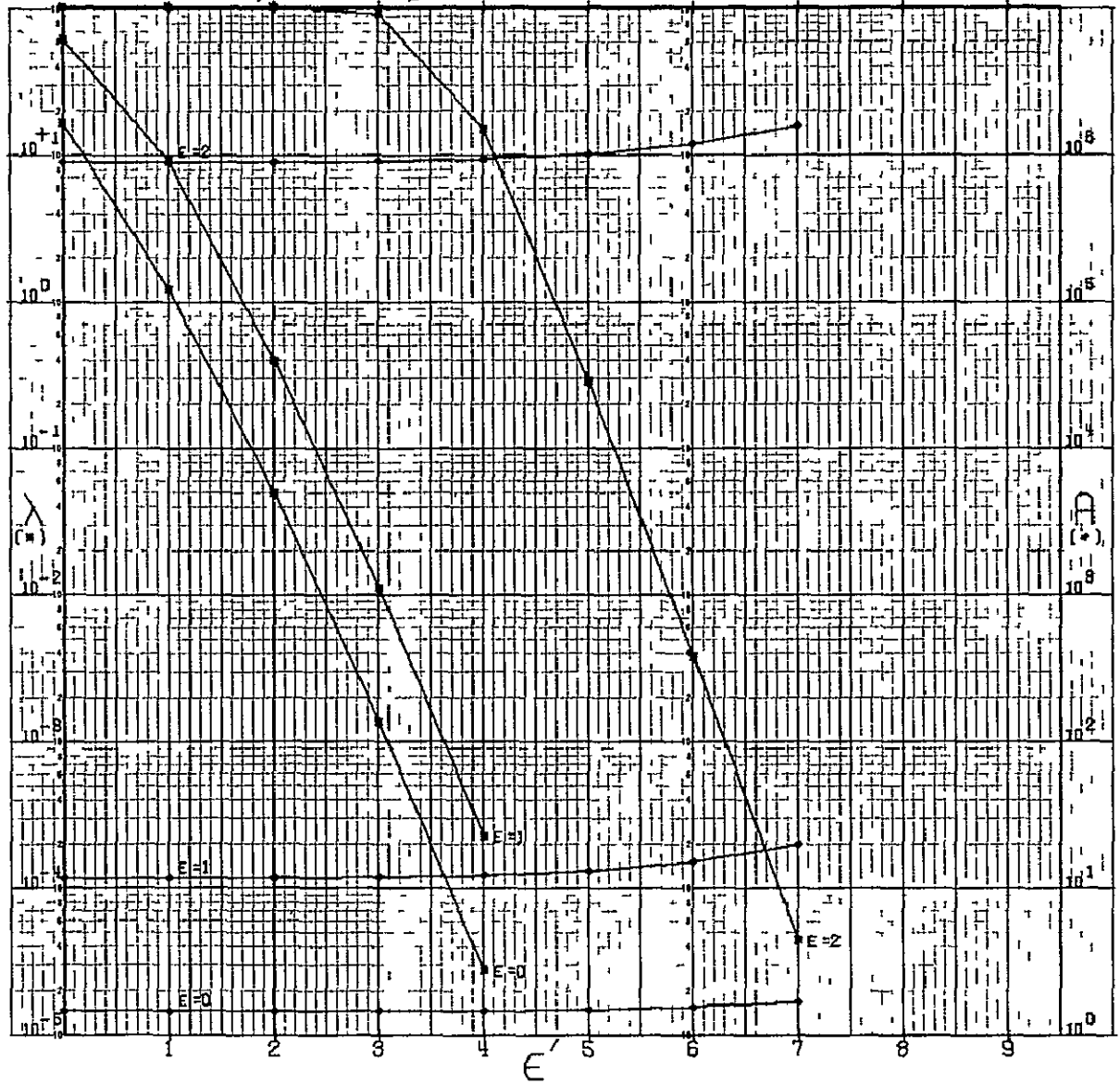
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0100$

$\beta = 2000$

(DRAWN BY ADPB, CODE 542, GSFC)



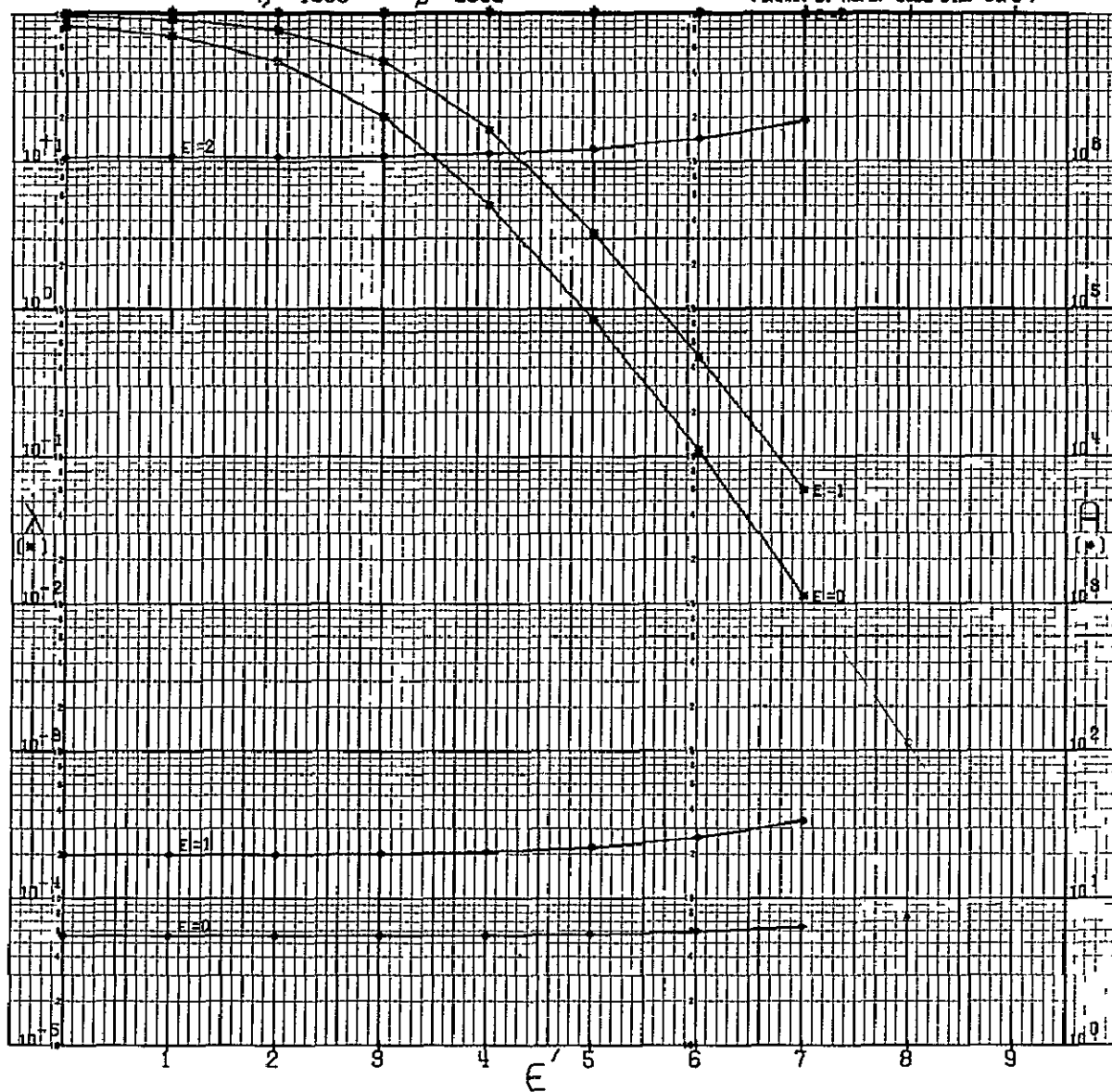
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ACPB, CODE 542, GSFC)



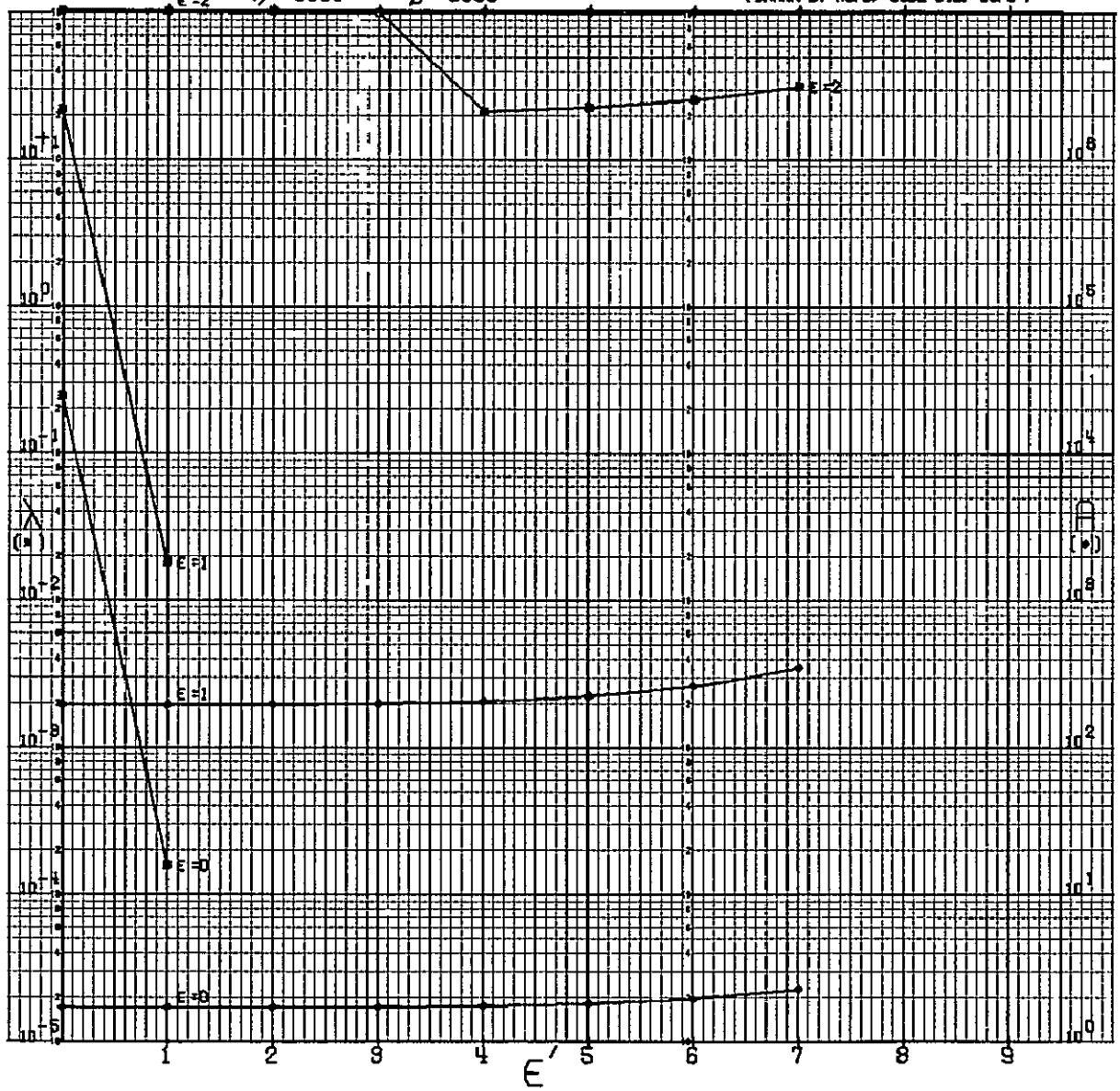
N = 14

CODE 11100110100000
GSFC STANDARD

$\epsilon = 2$ $\eta = +0001$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 14

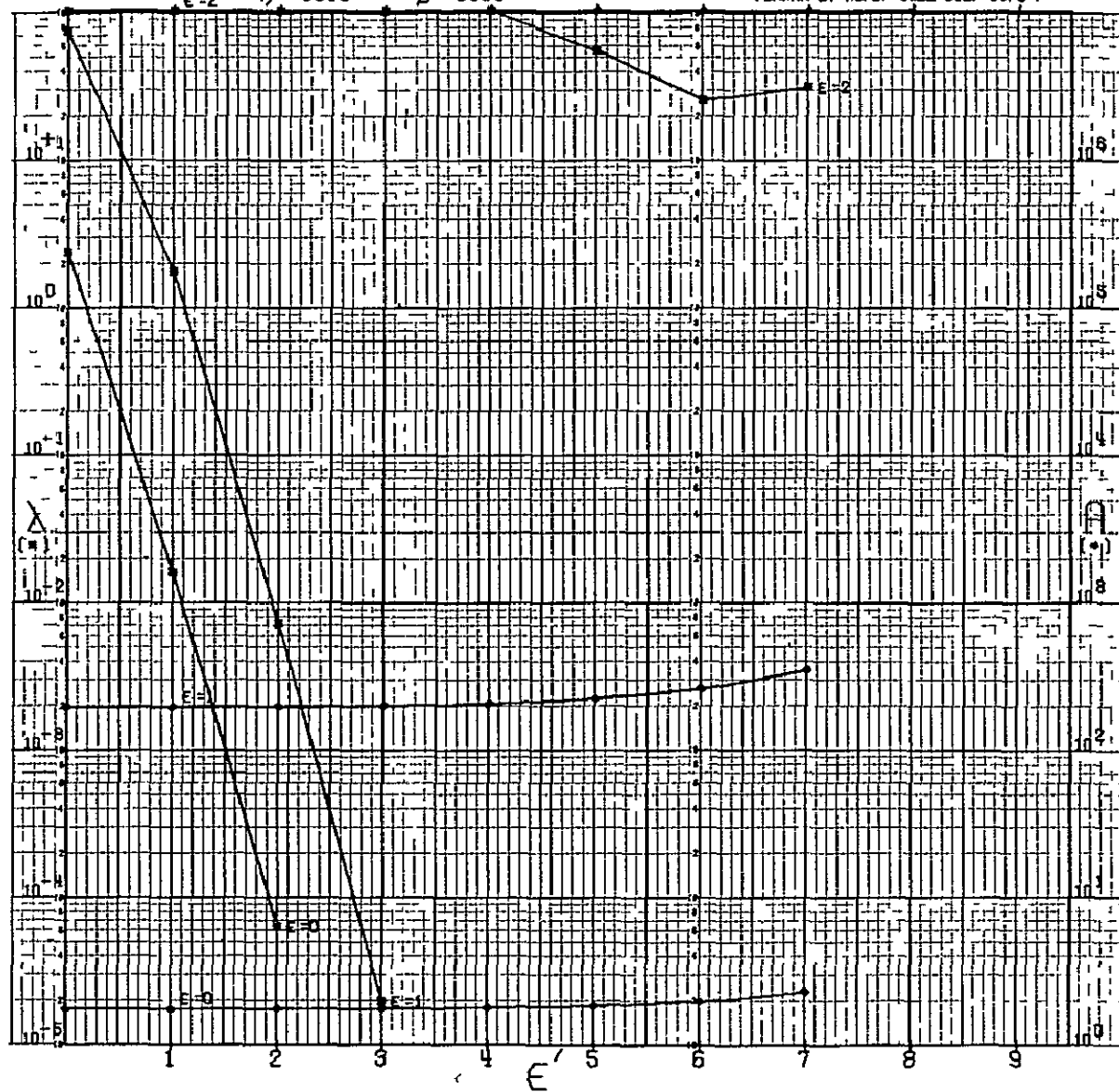
CODE 11100110100000

GSFC STANDARD

$\epsilon = 2$ $\eta = +0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 14

CODE 11100110100000

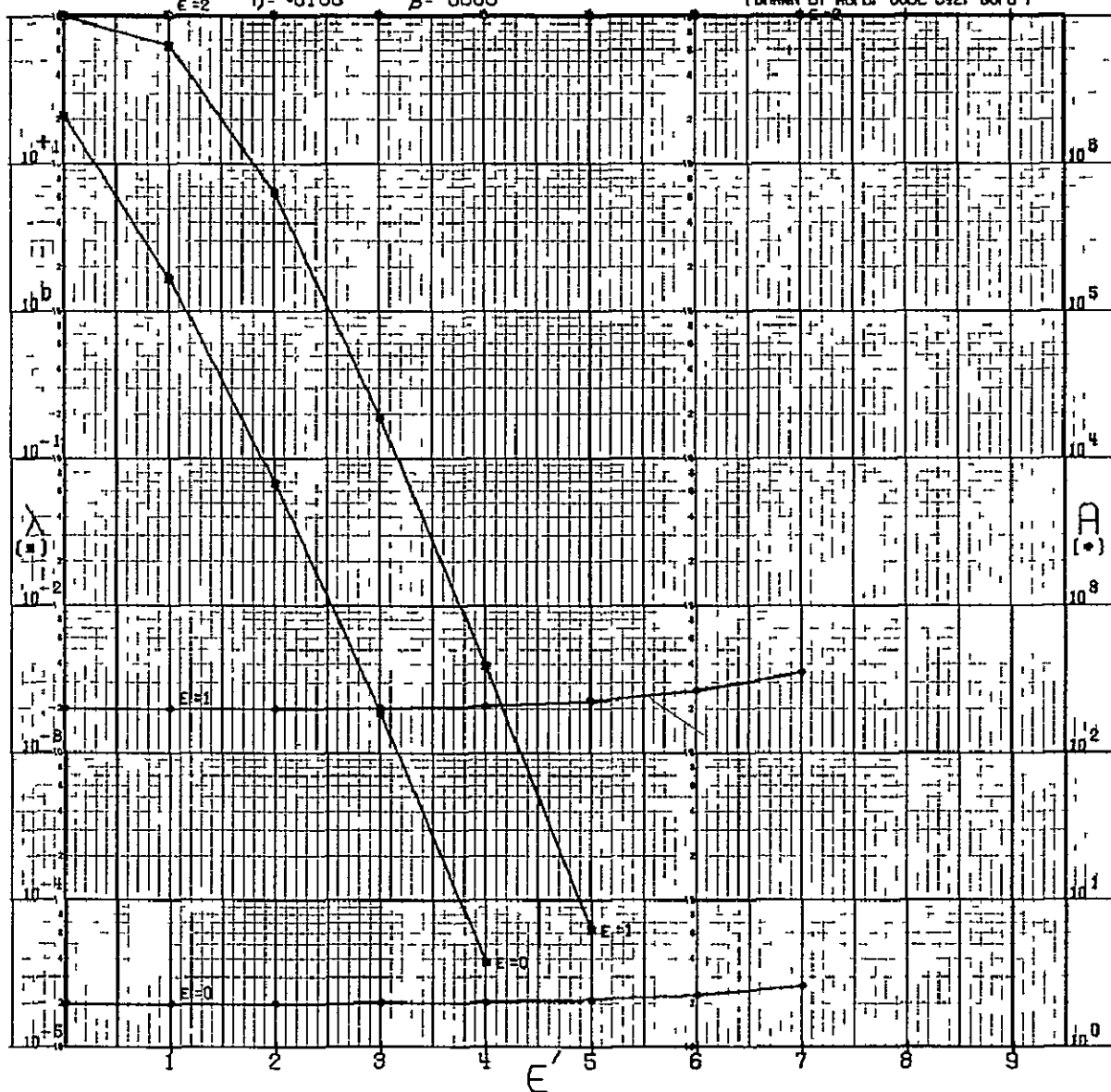
GSFC STANDARD

$\epsilon = 2$

$\eta = 0.0100$

$\beta = 5000$

(DRAWN BY ROPE, CODE 542, GSFC)



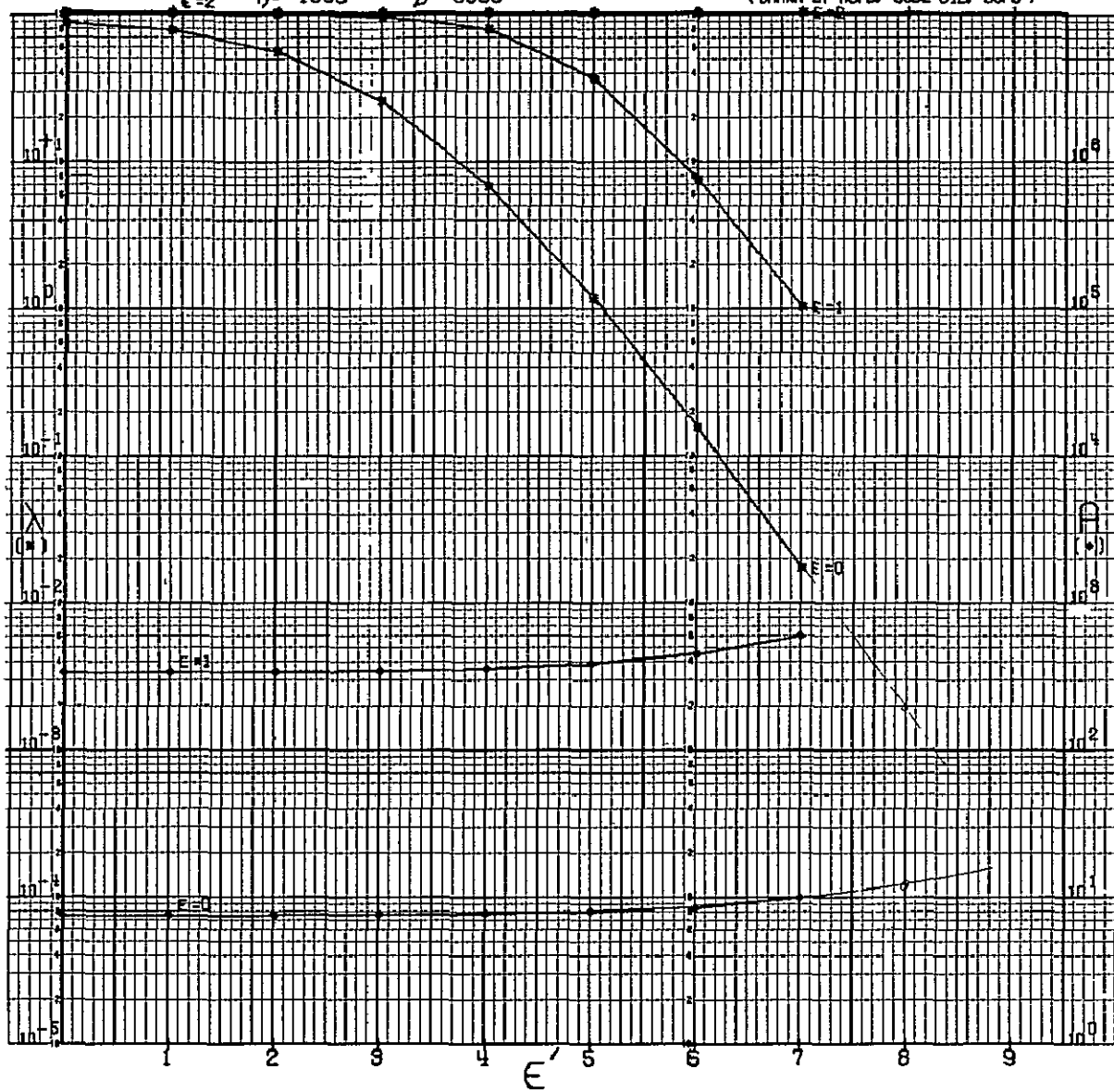
N = 14

CODE 11100110100000
GSFC STANDARD

$\epsilon = 2$ $\eta = 1000$

$\beta = 5000$

(DRAWN BY ACPB, CODE 542, GSFC)



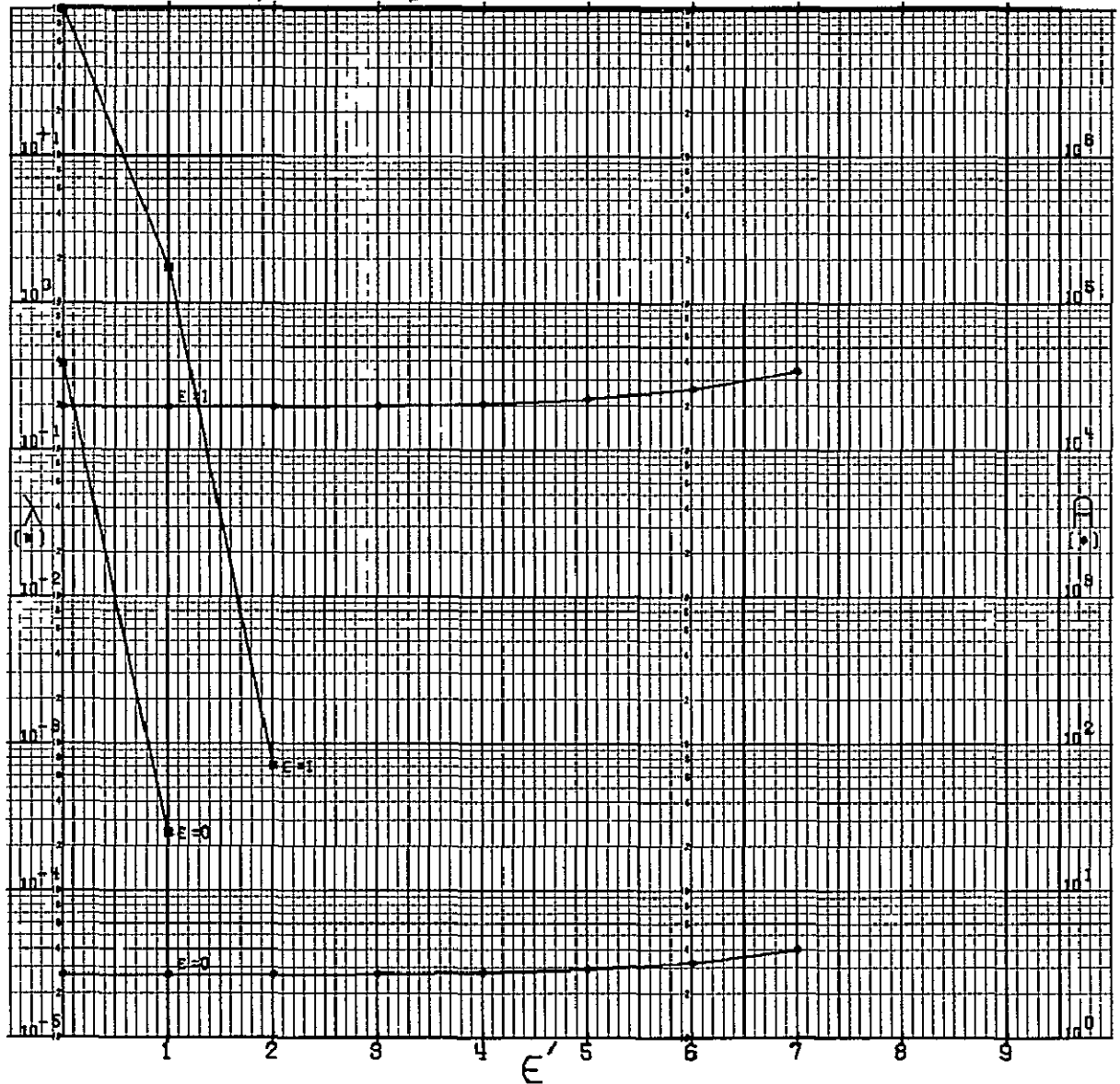
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = 0.001$

$\beta = 10000$

(DRAWN BY AOPS. CODE 542, GSFC)



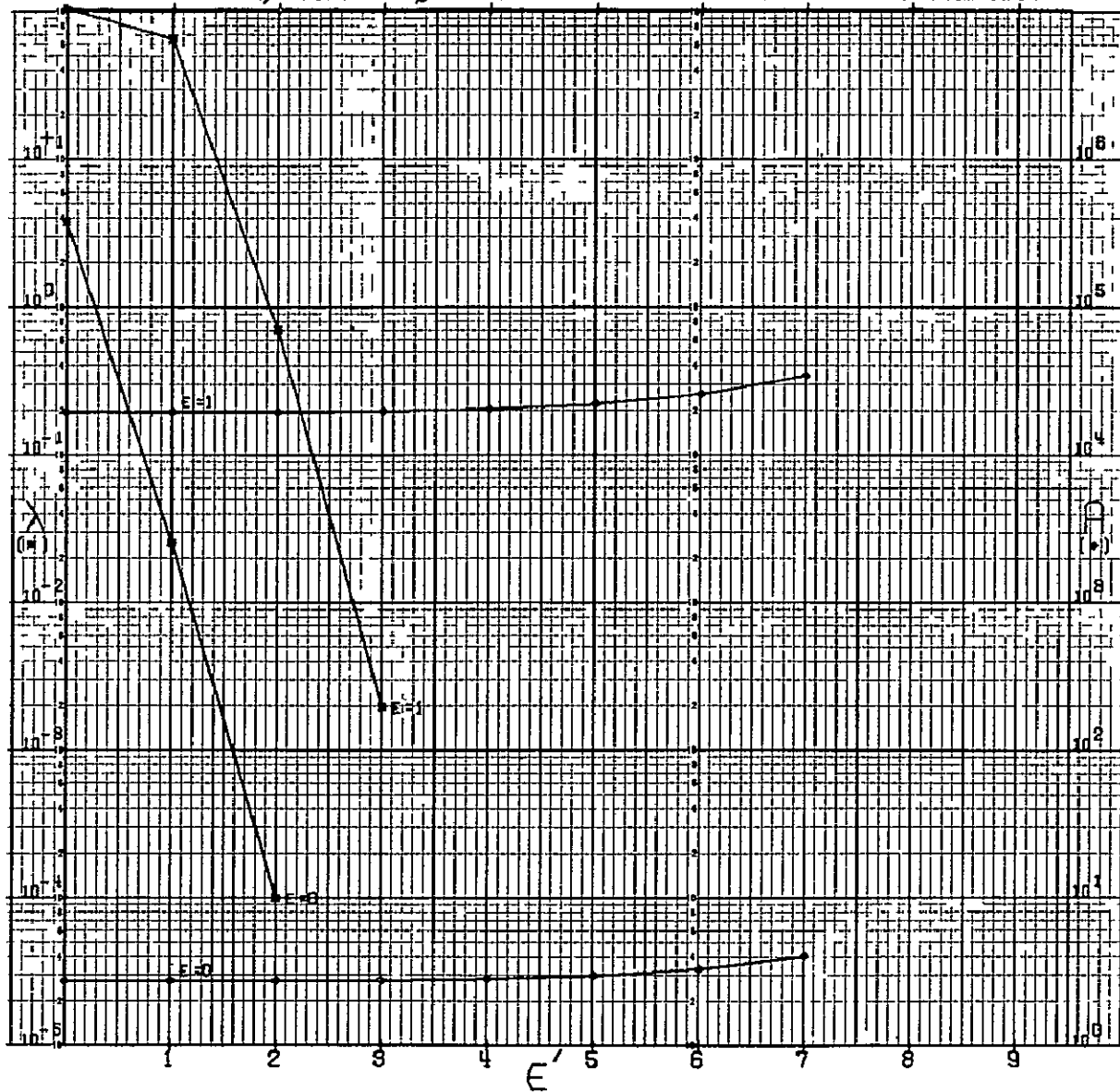
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROFB. CODE 542. GSFC)



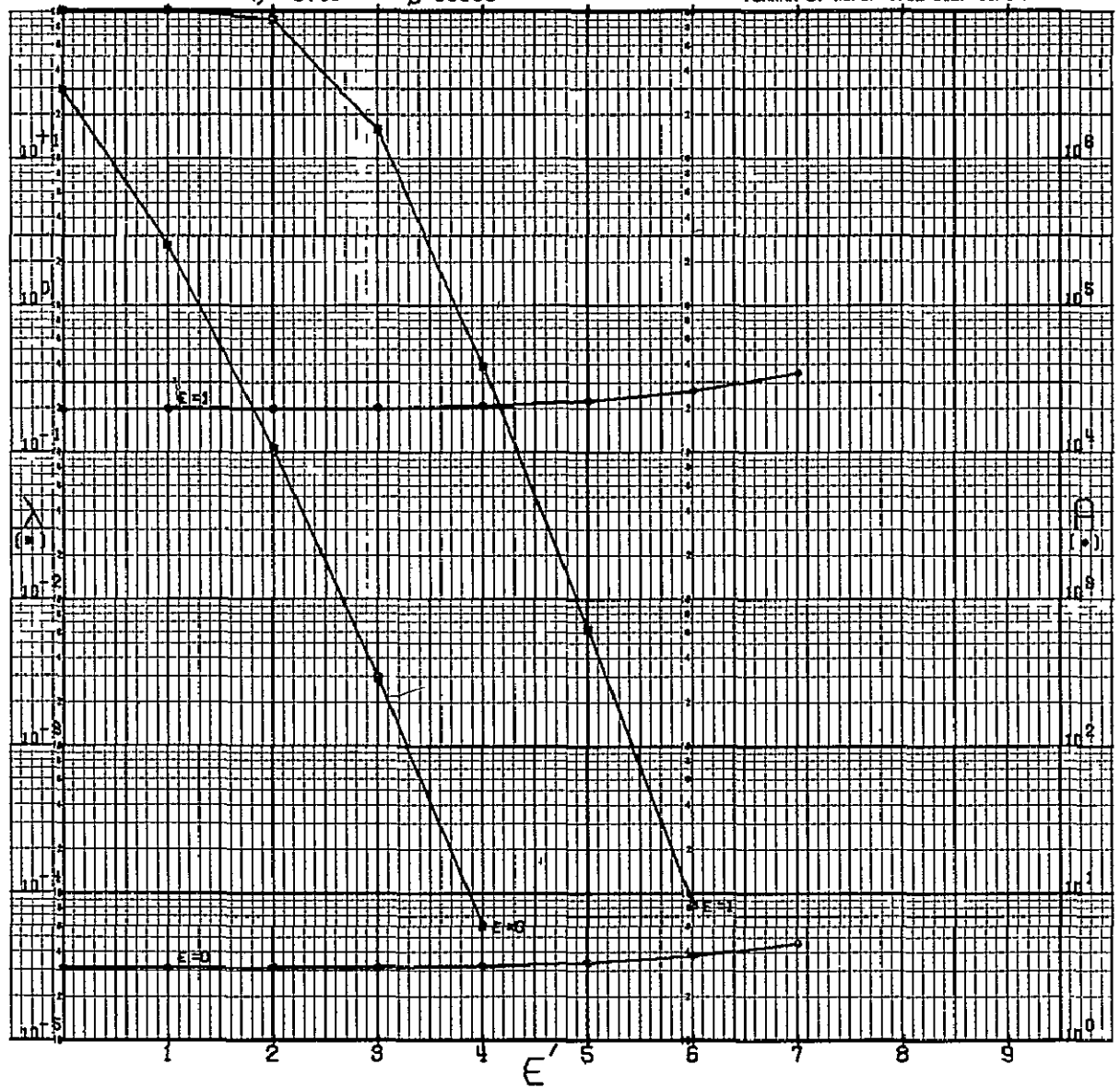
N=14

CODE 11100110100000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



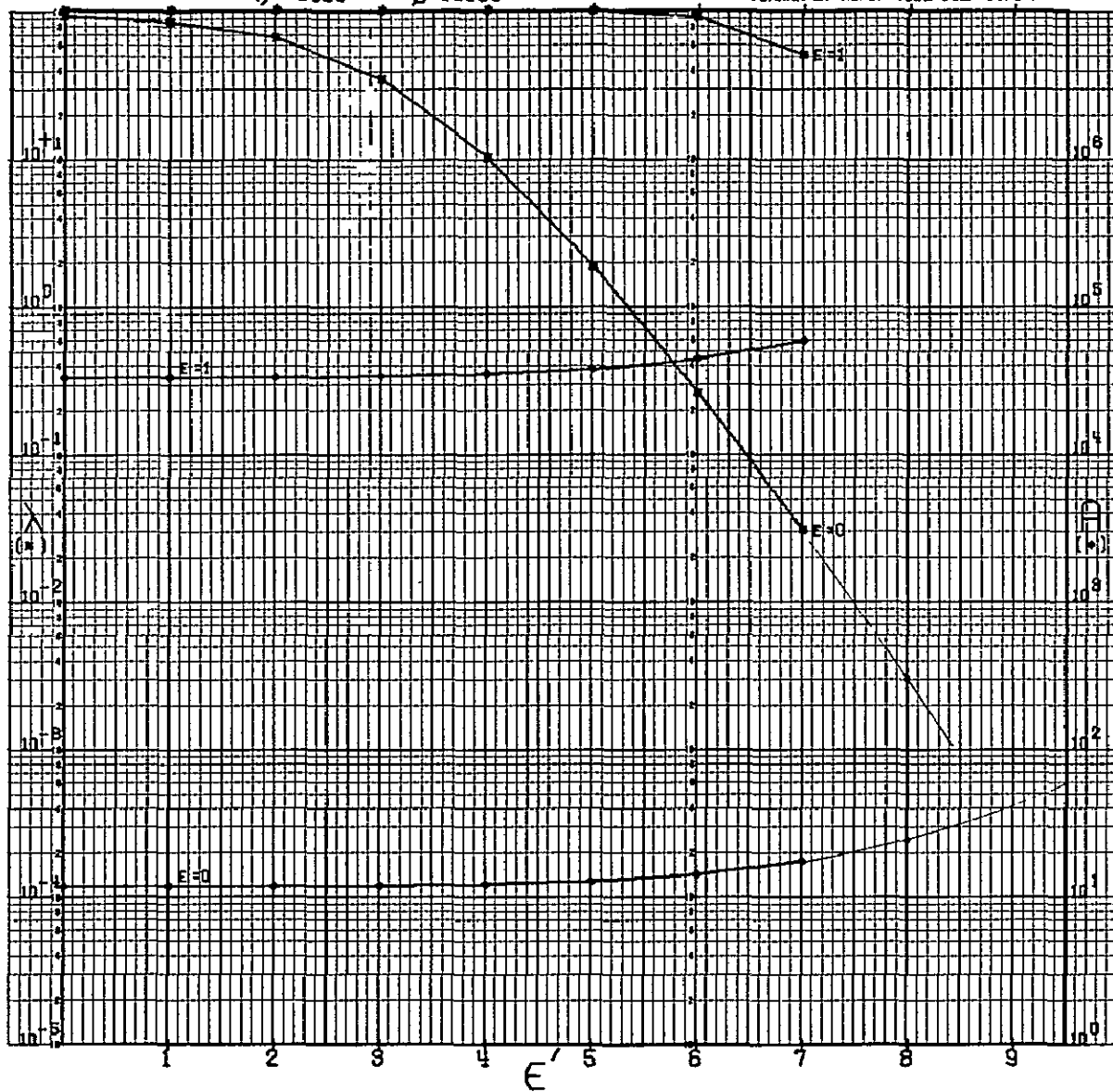
N = 14

CODE 11100110100000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=14

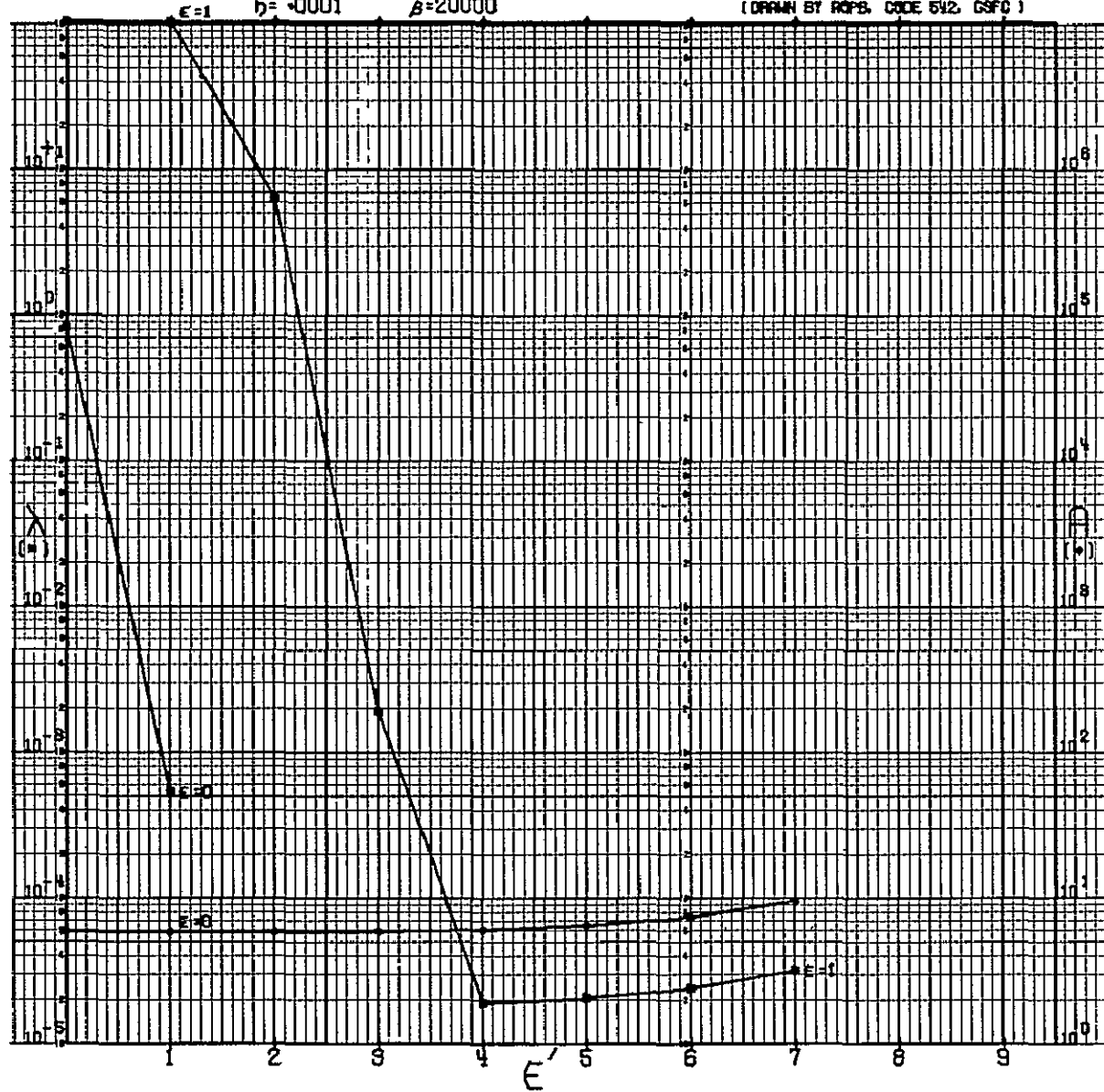
CODE 11100110100000

GSFC STANDARD

$\eta = -0.001$

$\beta = 20000$

(DRAWN BY ROPS, CODE 542, GSFC)



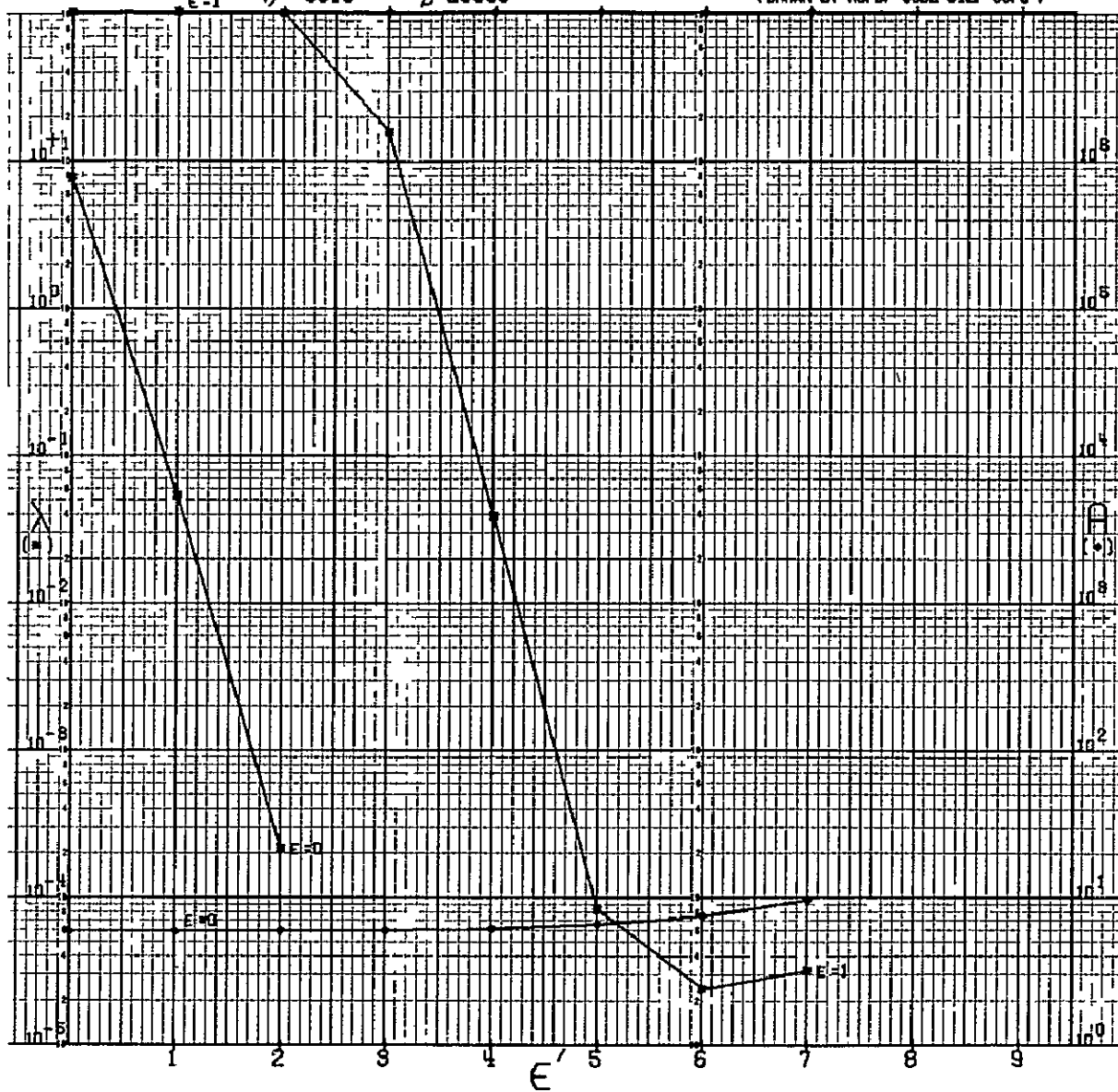
N=14

CODE 11100110100000
GSFC STANDARD

$\epsilon = 1$ $\eta = .0010$

$\beta = 20000$

(DRAWN BY RCPB, CODE 592, GSFC)



N = 14

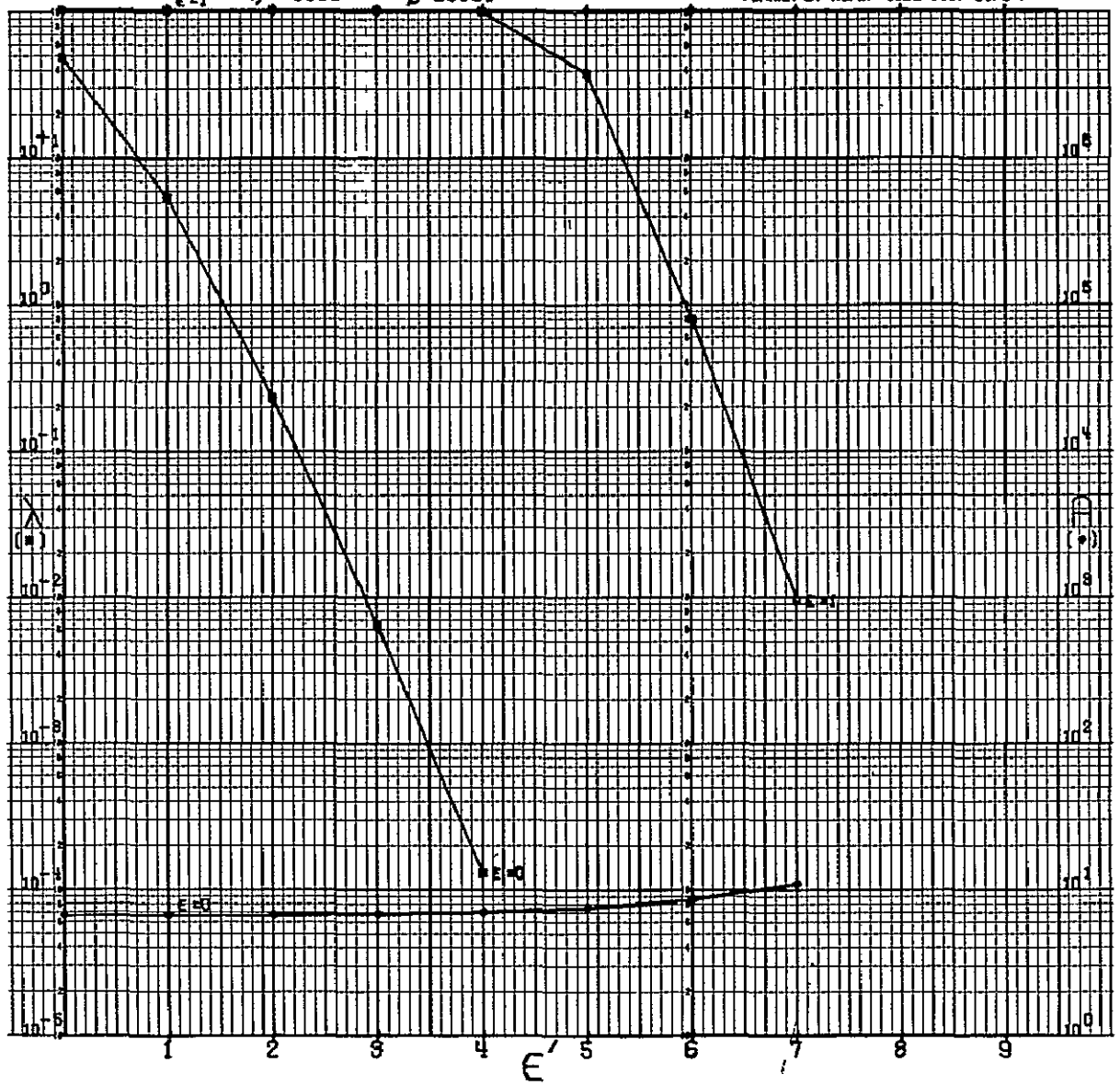
CODE 11100110100000

GSFC STANDARD

$\epsilon = 1$ $\eta = 0.100$

$\beta = 20000$

(DRAWN BY ROPE, CODE 542, GSFC)



N=14

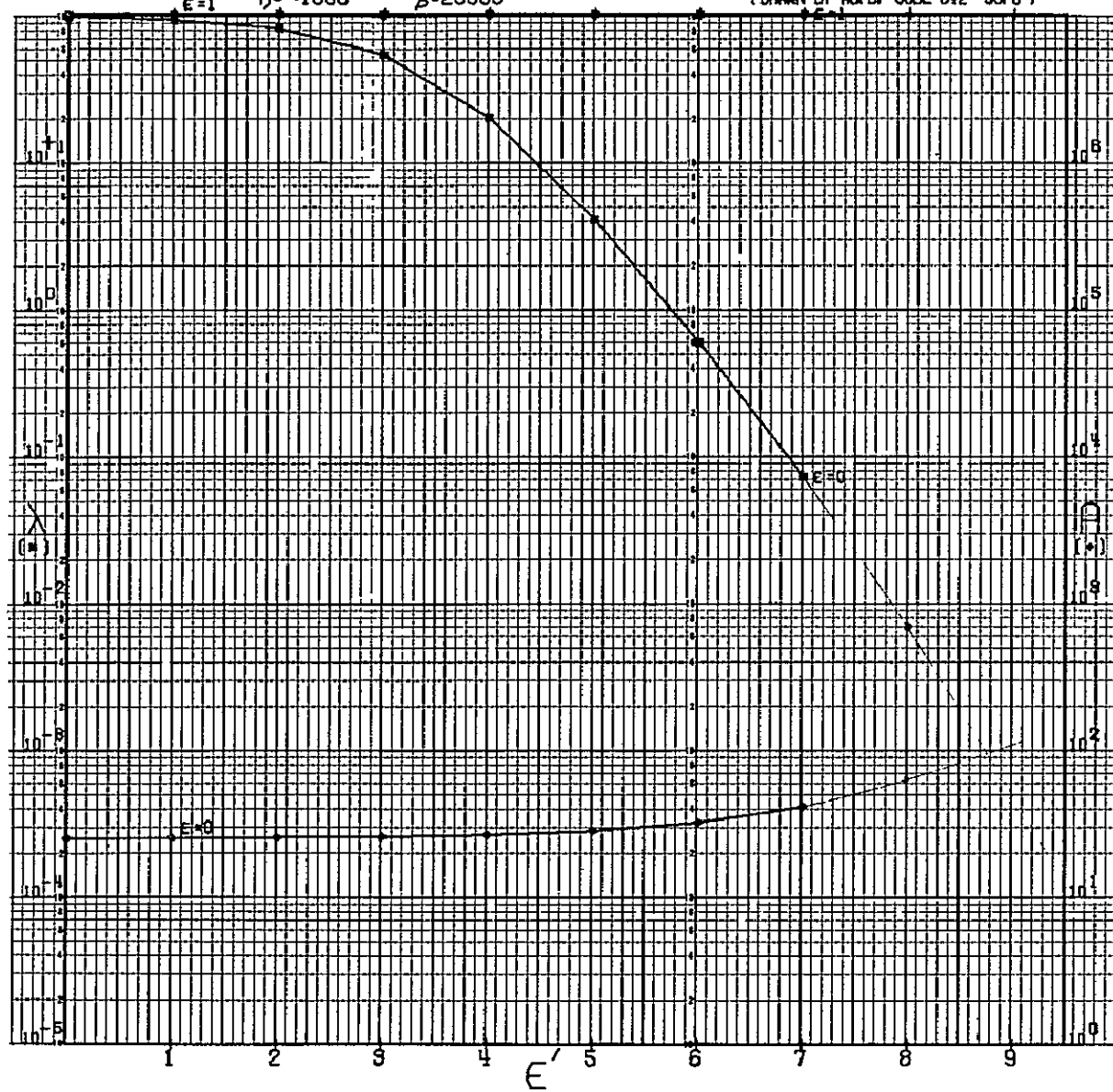
CODE 11100110100000

GSFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY AOPB, CODE 542 GSFC)



N = 15

CODE 111011001010000
GSFC STANDARD

$\epsilon = 8$

$\eta = +0001$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)

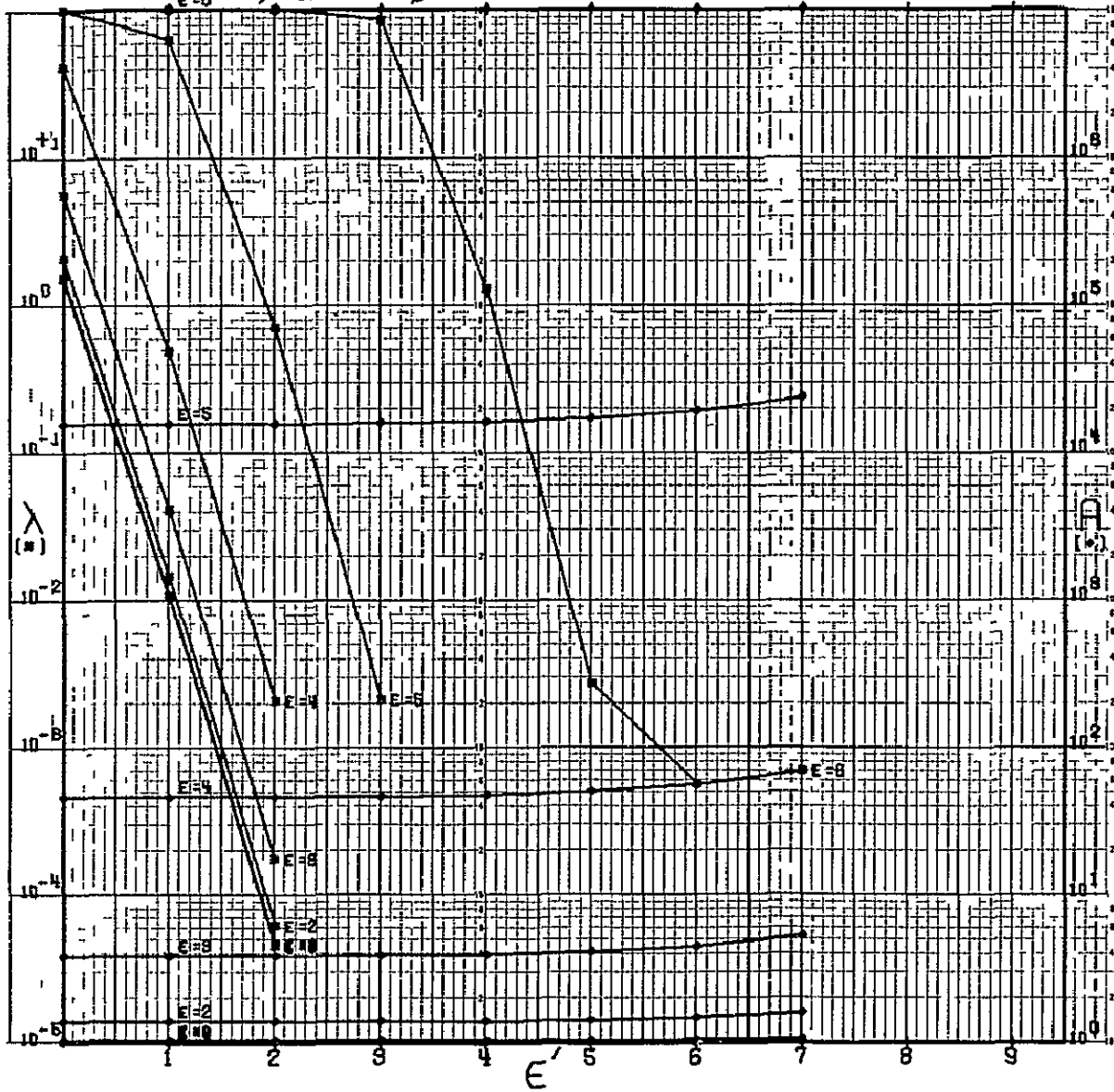


N^o 15

CODE 111011001010000
GDFC STANDARD

$\epsilon = 8$ $\eta = .0010$ $\beta = 50$

(DRAWN BY AOPB, CODE 542, GDFC)



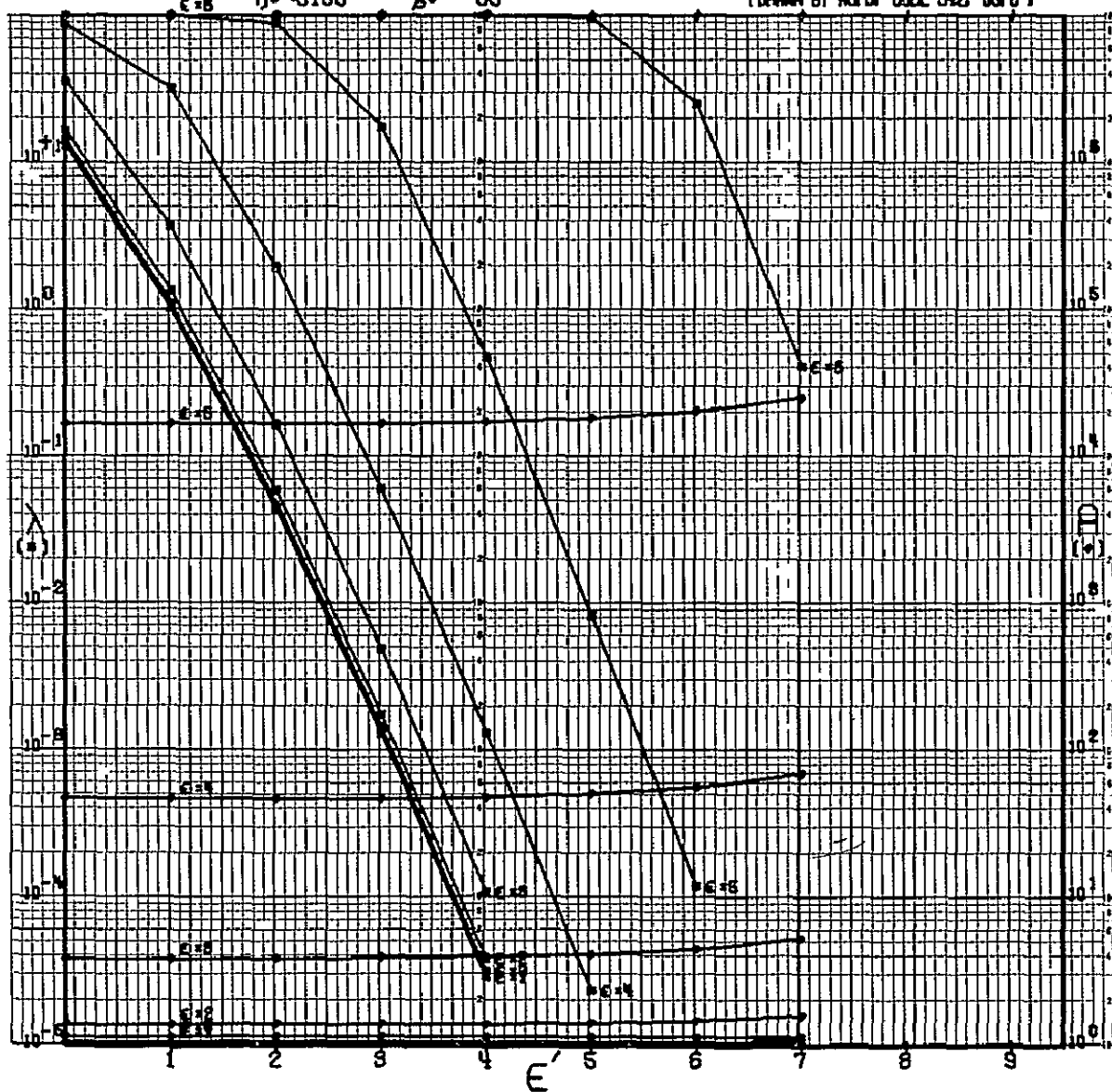
N = 15

CODE 111011001010000
GDFC STANDARD

$\eta = 0.100$

$\beta = 50$

(DERIVED BY ROPS CODE 592, GDFC)



N=15

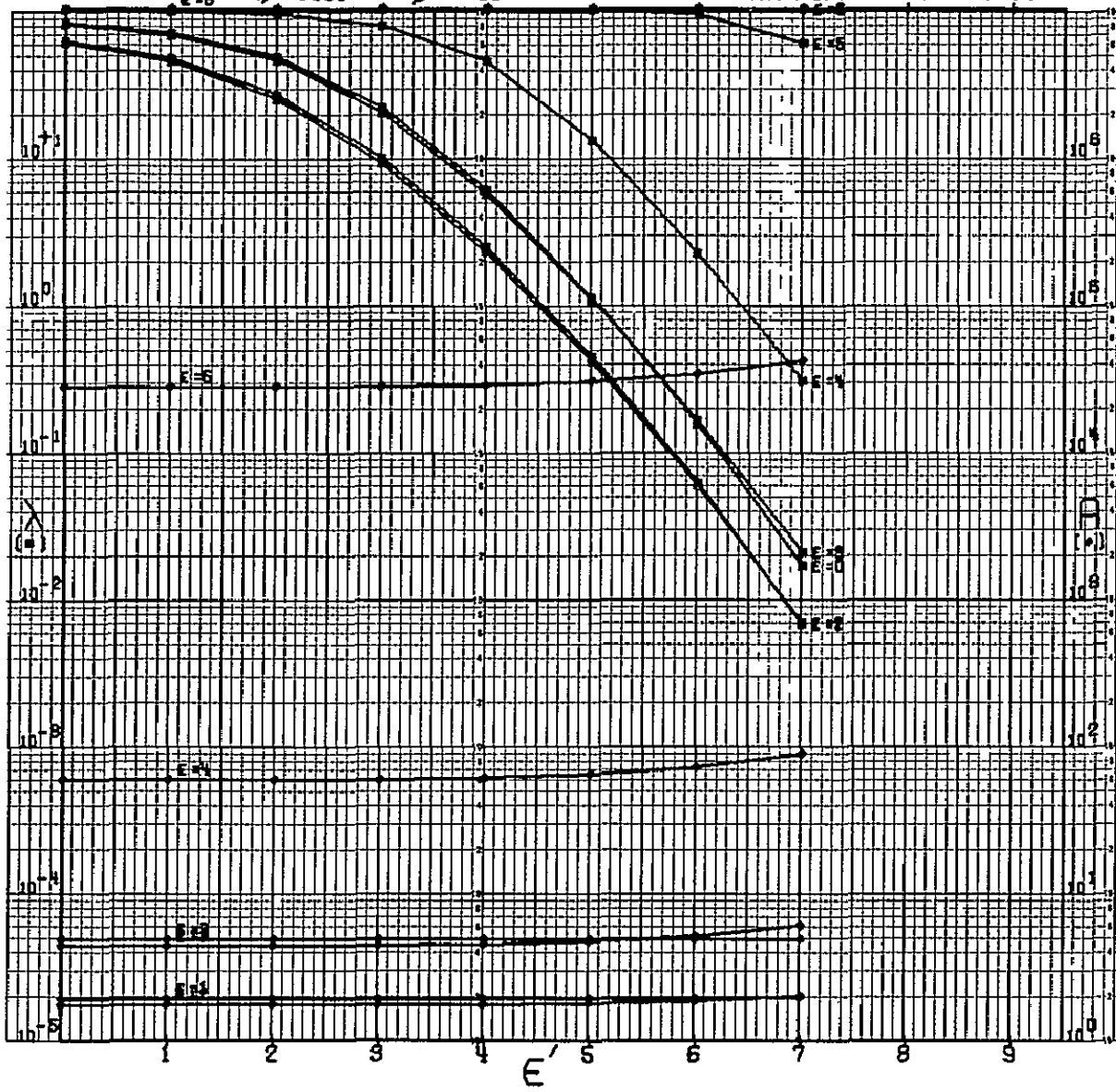
CODE 111011001010000

GSFC STANDARD

$\epsilon = 5$ $\eta = 1000$

$\beta = 50$

(DRAWN BY ROPS, CODE 542, GSFC)

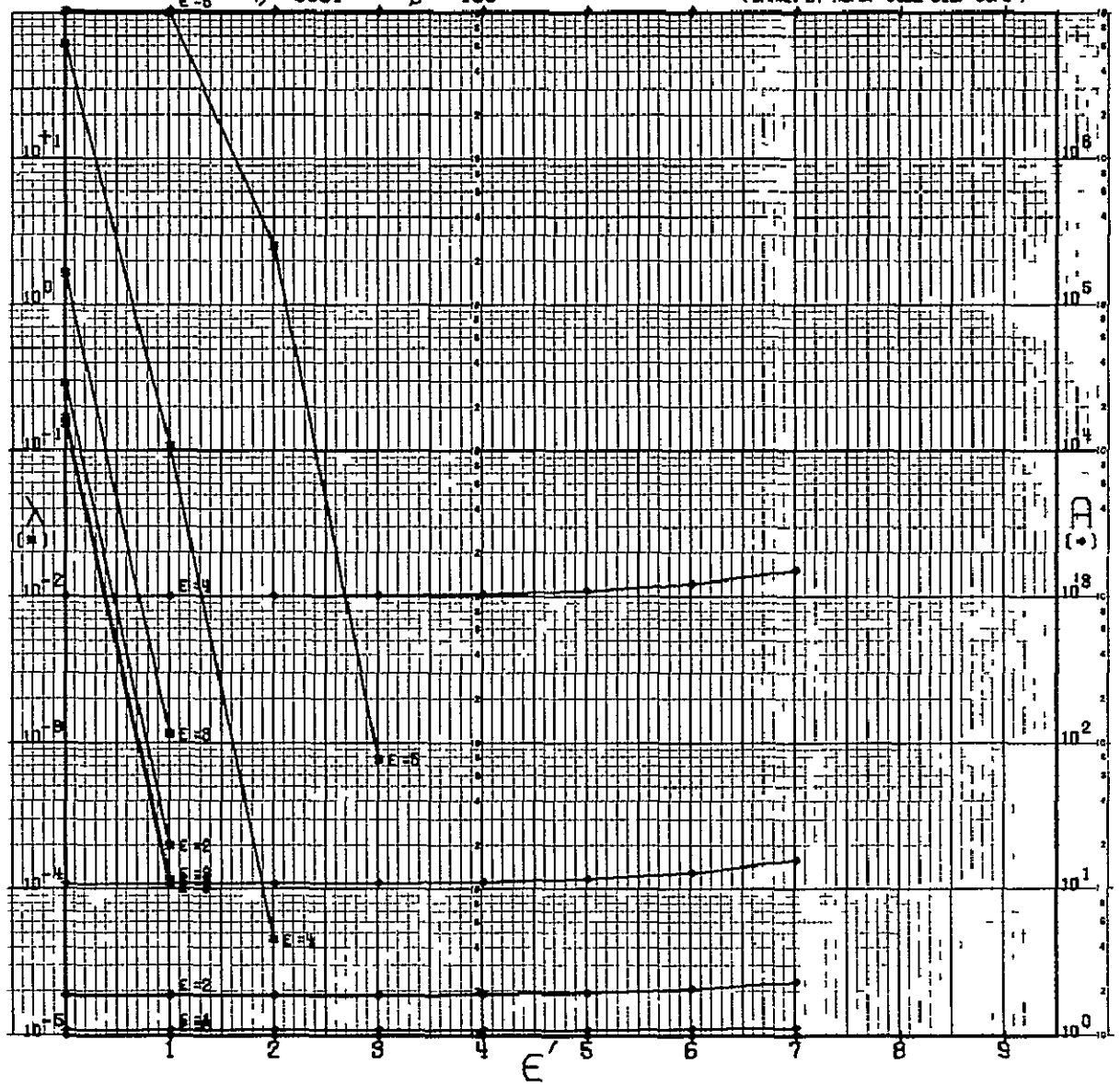


N=15

CODE 111011001010000
GSFC STANDARD

$\epsilon = 5$ $\eta = 0.0001$ $\beta = 100$

(DRAWN BY ROPS, CODE 542, GSFC)



N=15

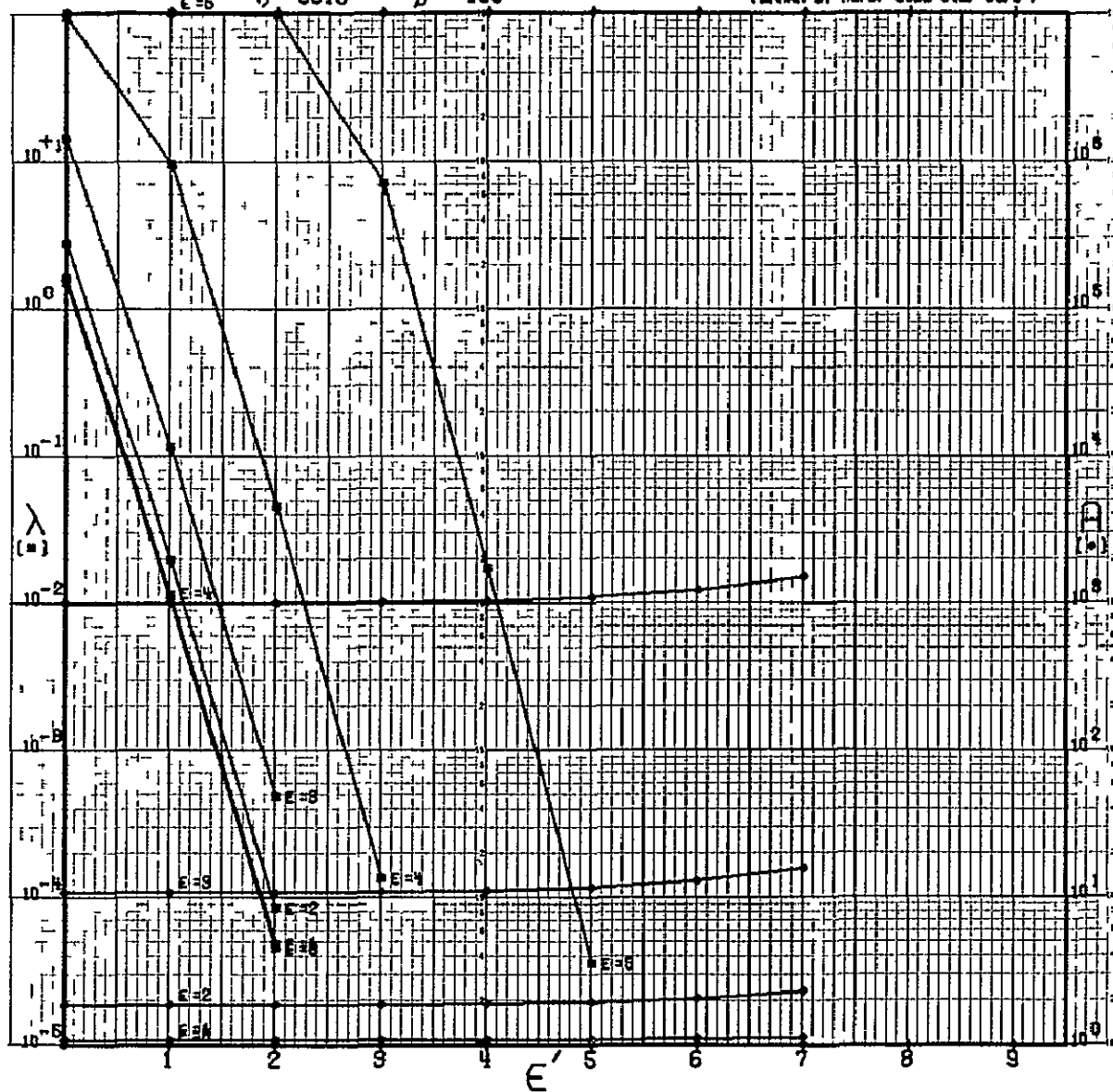
CODE 111011001010000

GSFC STANDARD

$\eta = +0010$

$\beta = 100$

(DRAWN BY ROY, CODE 542, GSFC)

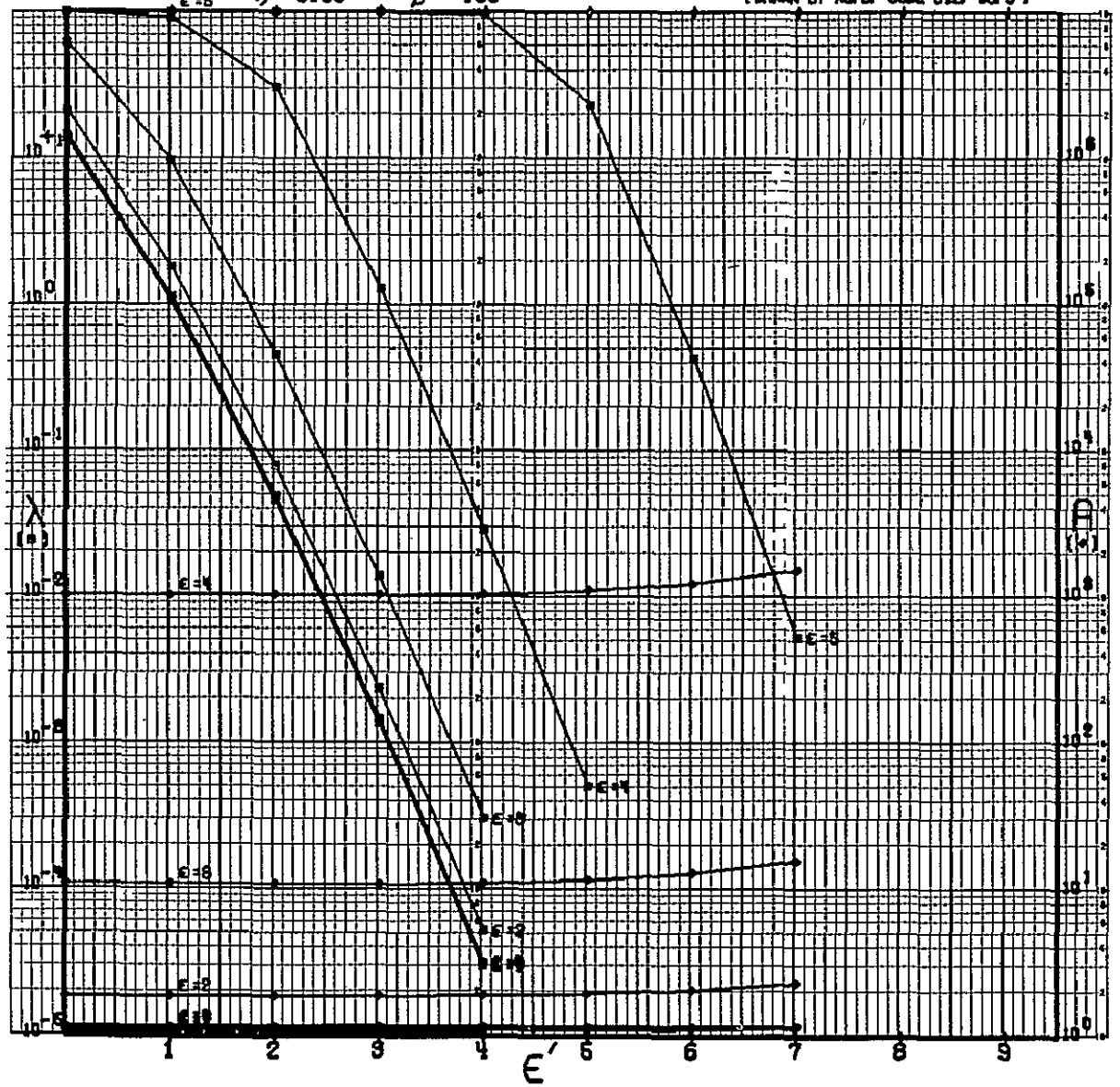


N° 15

CODE 111011001010000
GDFC STANDARD

$\epsilon = 5$ $h = 0.100$ $\beta = 100$

(DRAWN BY ROPEL CODE 592, GDFC)



N=15

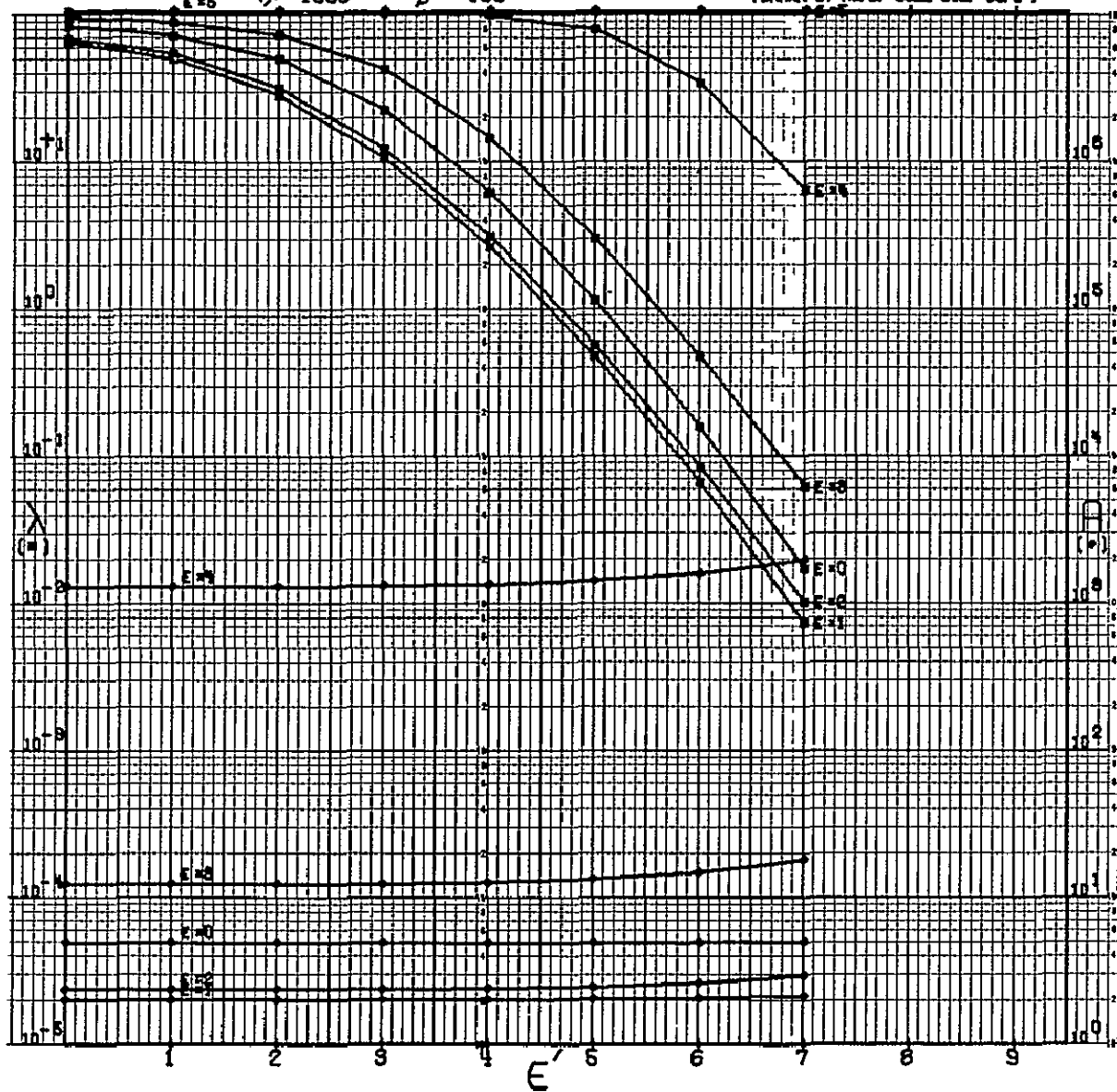
CODE 111011001010000

GFC STANDARD

$\epsilon = 5$ $\eta = 1000$

$\beta = 100$

(DRAWN BY ROPG CODE 512, GFC)

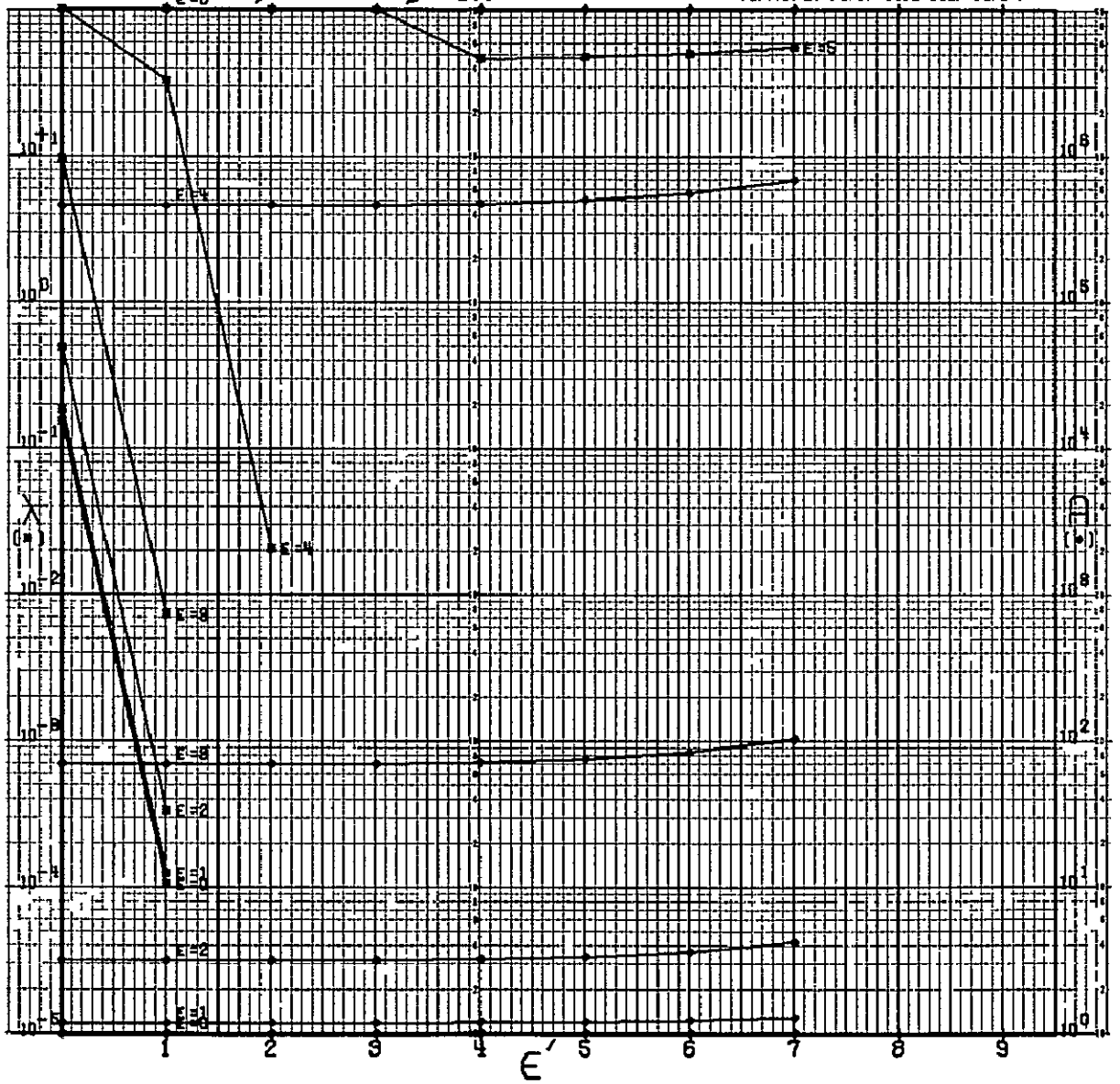


N=15

CODE 111011001010000
GGFC STANDARD

$\epsilon = 5$ $\eta = -0001$ $\beta = 200$

(DRAWN BY ROPB, CODE 542, GGFC)



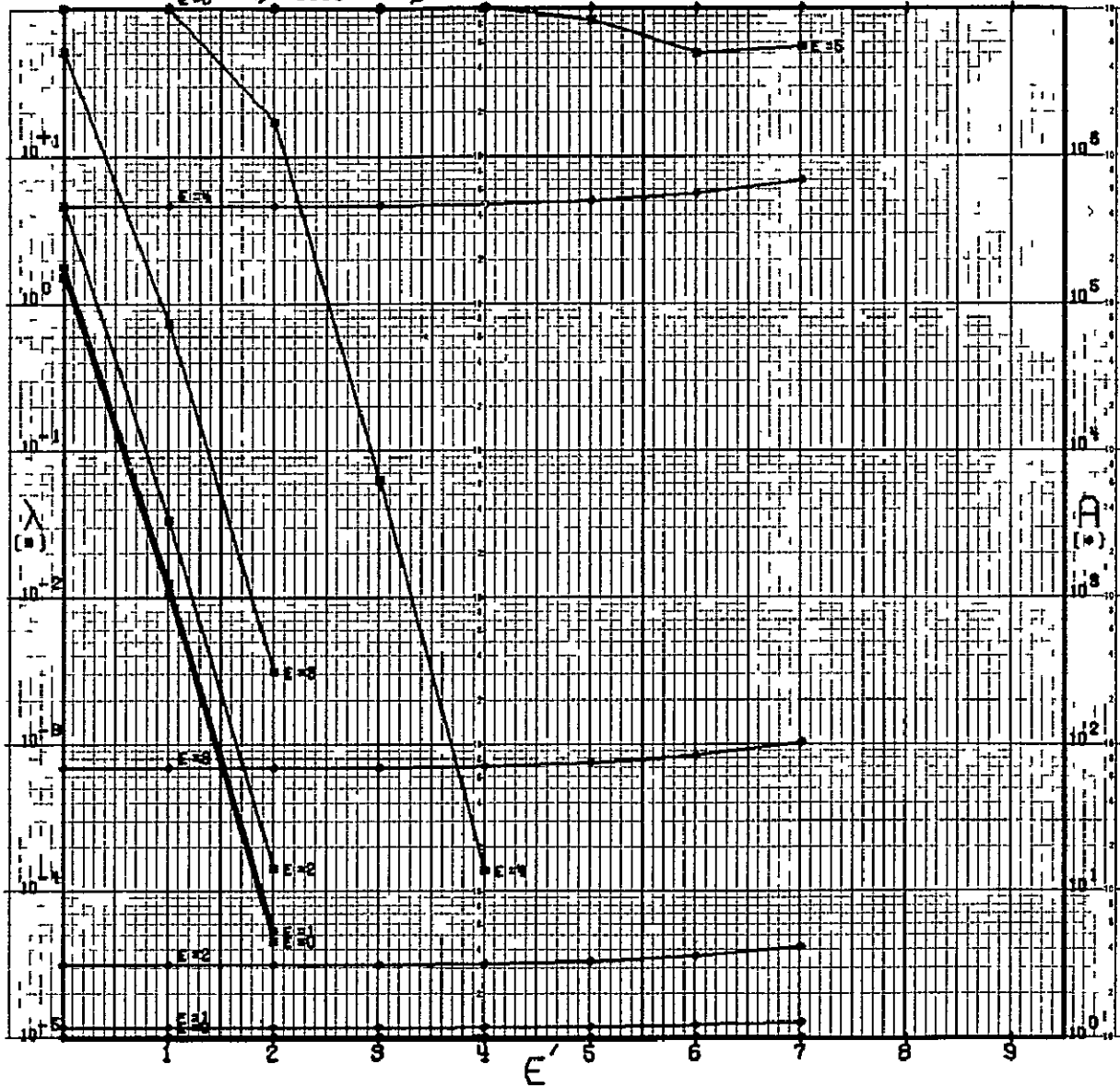
N=15

CODE 111011001010000
GDFC STANDARD

$\epsilon = 5$ $\eta = .0010$

$\beta = 200$

(DRAWN BY ROPS, CODE 512, GDFC)



N=15

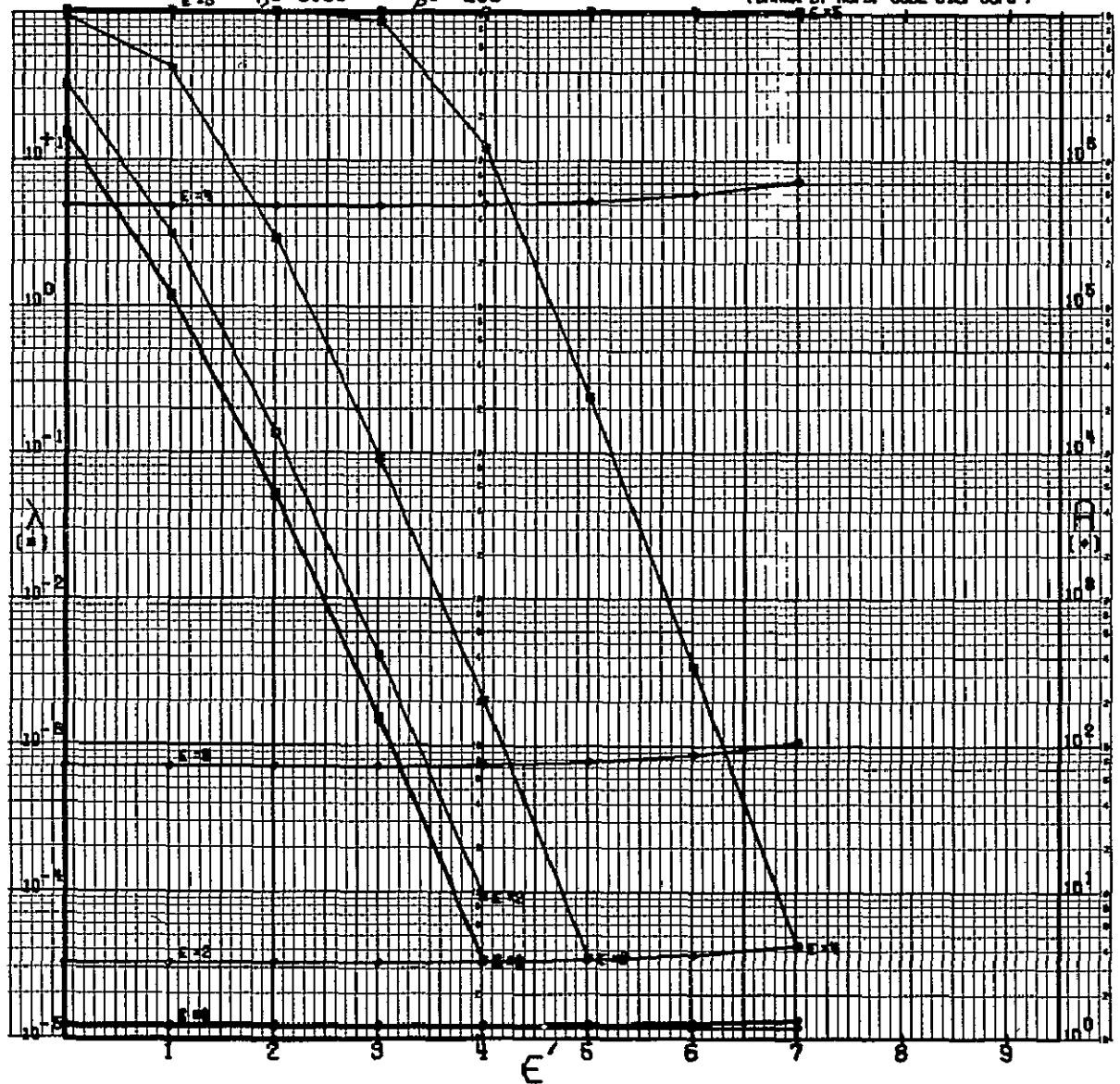
CODE 111011001010000

GSFC STANDARD

$\epsilon = 5$ $\eta = 0.100$

$\beta = 200$

(DRAWN BY ROPS, CODE 592, GSFC)



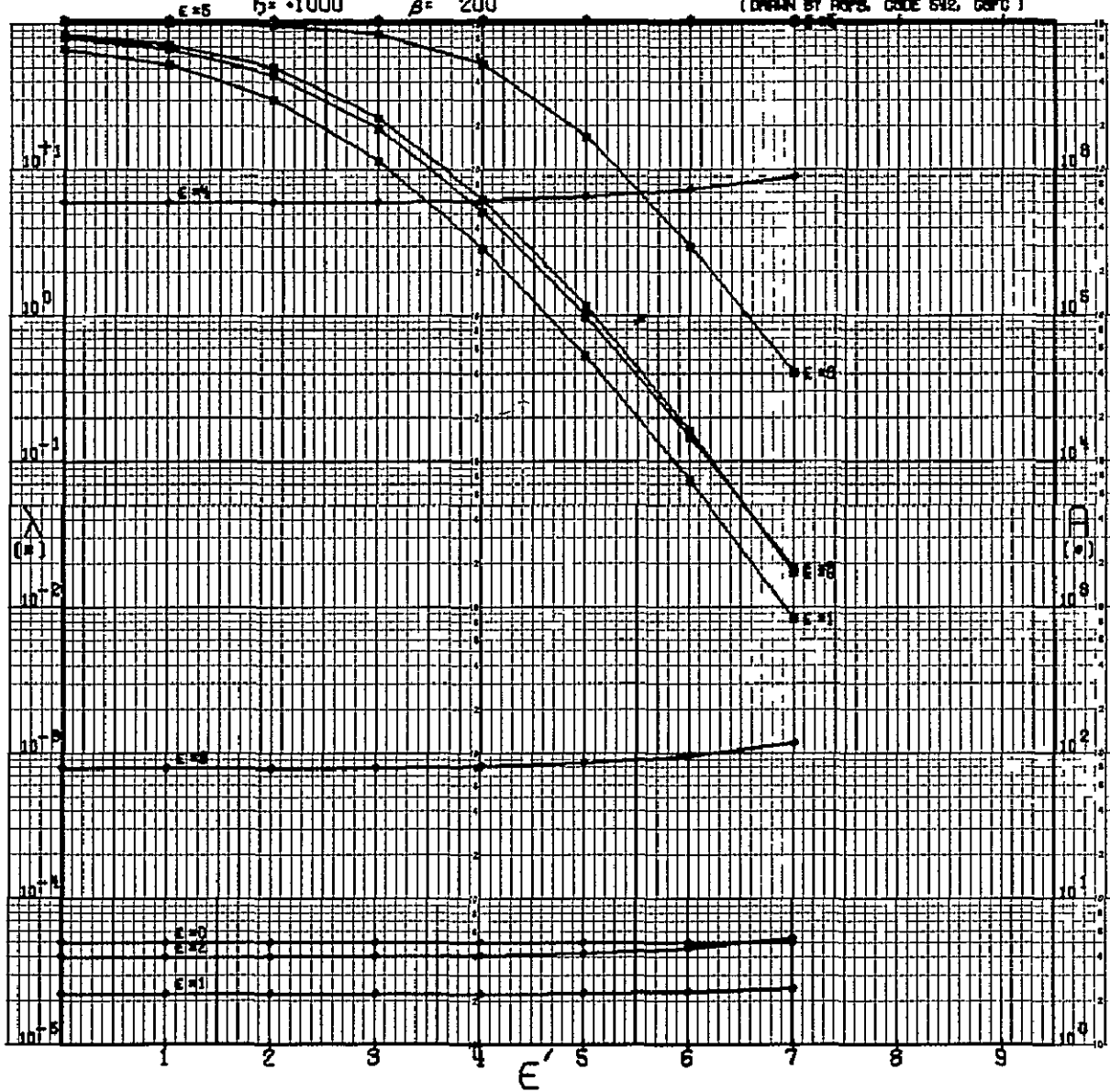
N=15

CODE 111011001010000
GSPC STANDARD

$b = 1000$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSPC)



N = 15

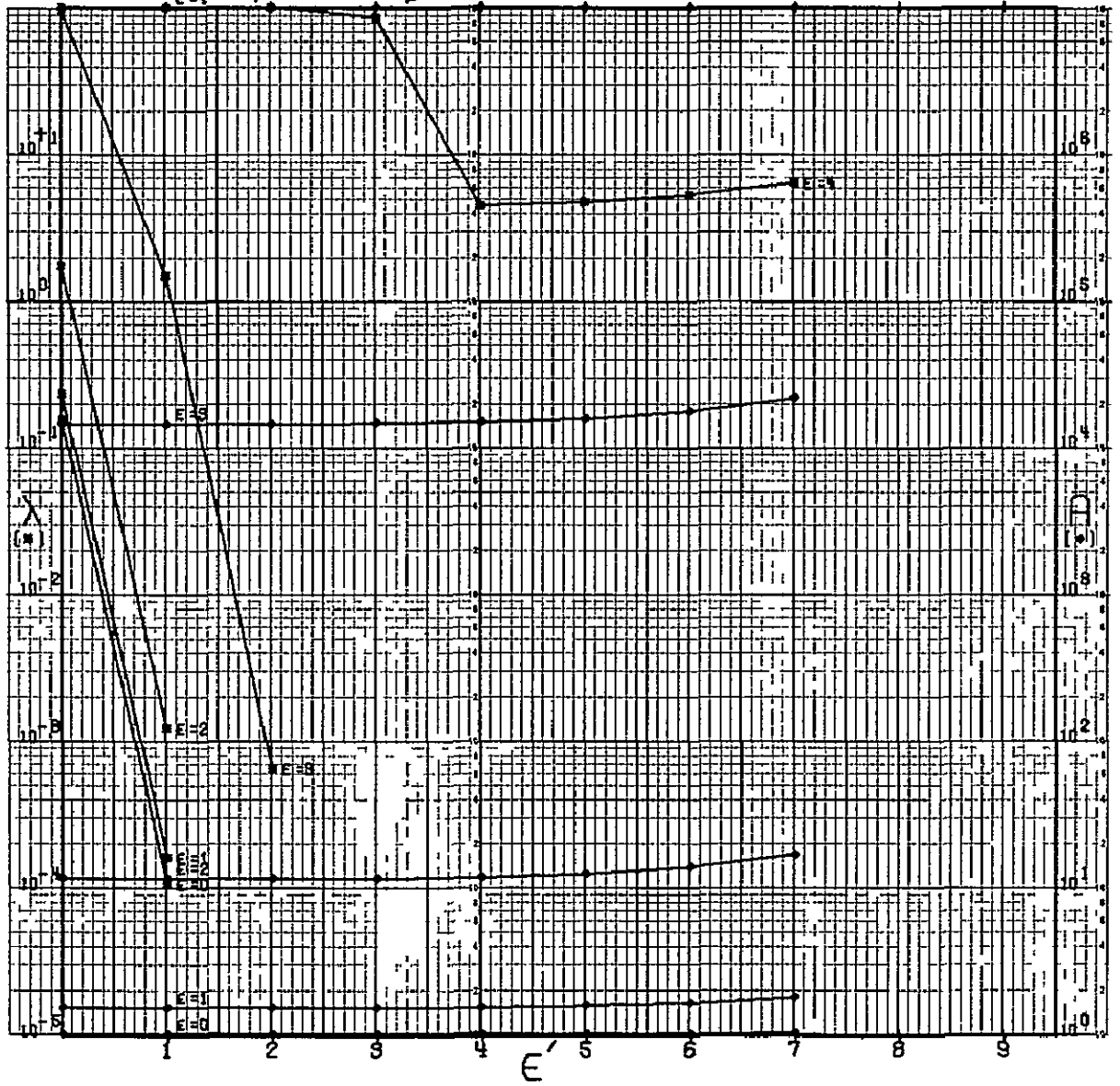
CODE 111011001010000

GSFC STANDARD

$\epsilon = 4$ $\eta = +0001$

$\beta = 500$

(DRAWN BY AOPS, CODE 5N2, GSFC)



N=15

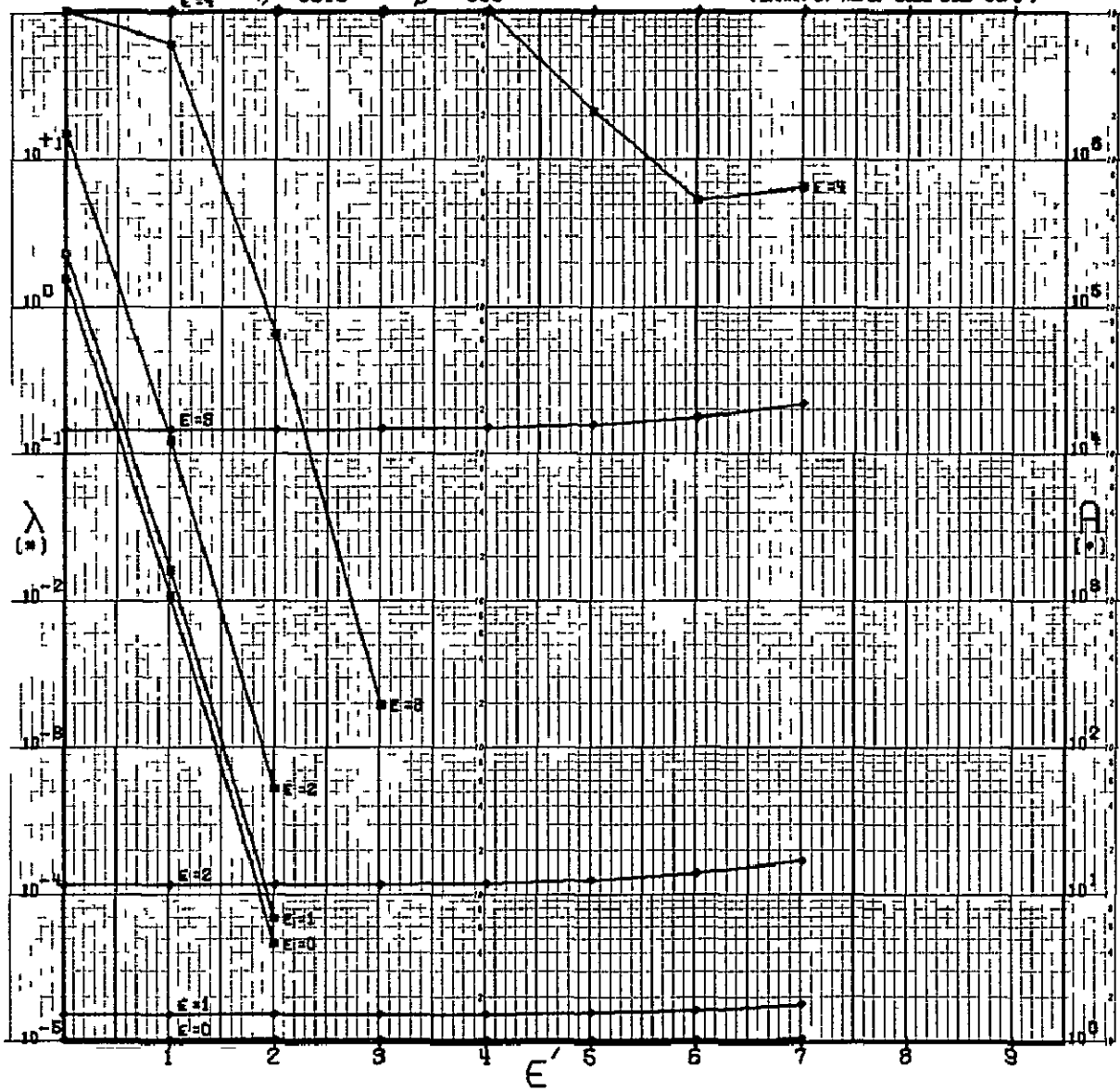
CODE 111011001010000

GSFC STANDARD

$\eta = -0010$

$\beta = 500$

(DRAWN BY ACP6, CODE 642, GSFC)



N=15

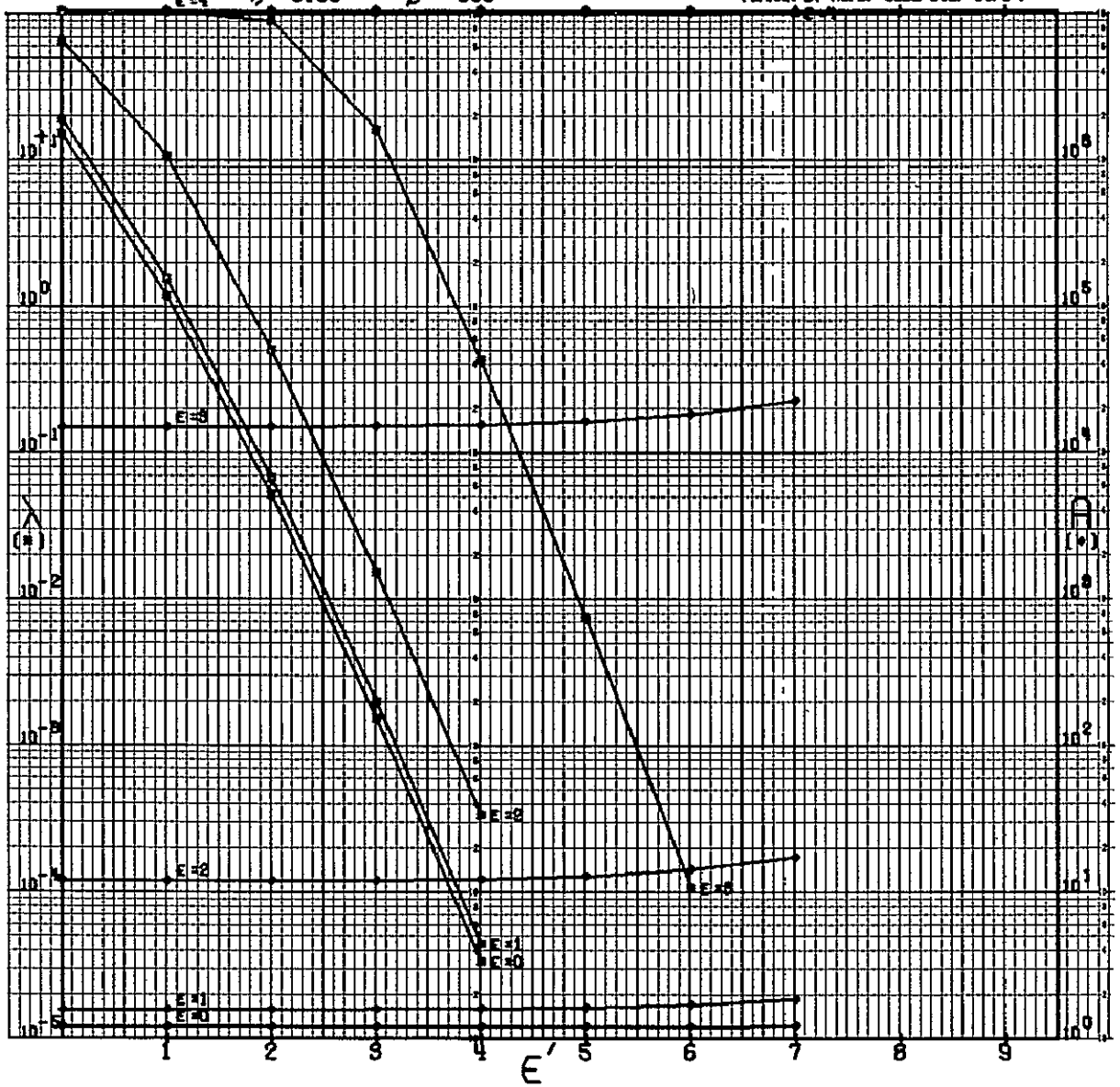
CODE 111011001010000

GSFC STANDARD

$\eta = -0100$

$\beta = 500$

(DRAWN BY ACPB, CODE 592, GSFC)



N=15

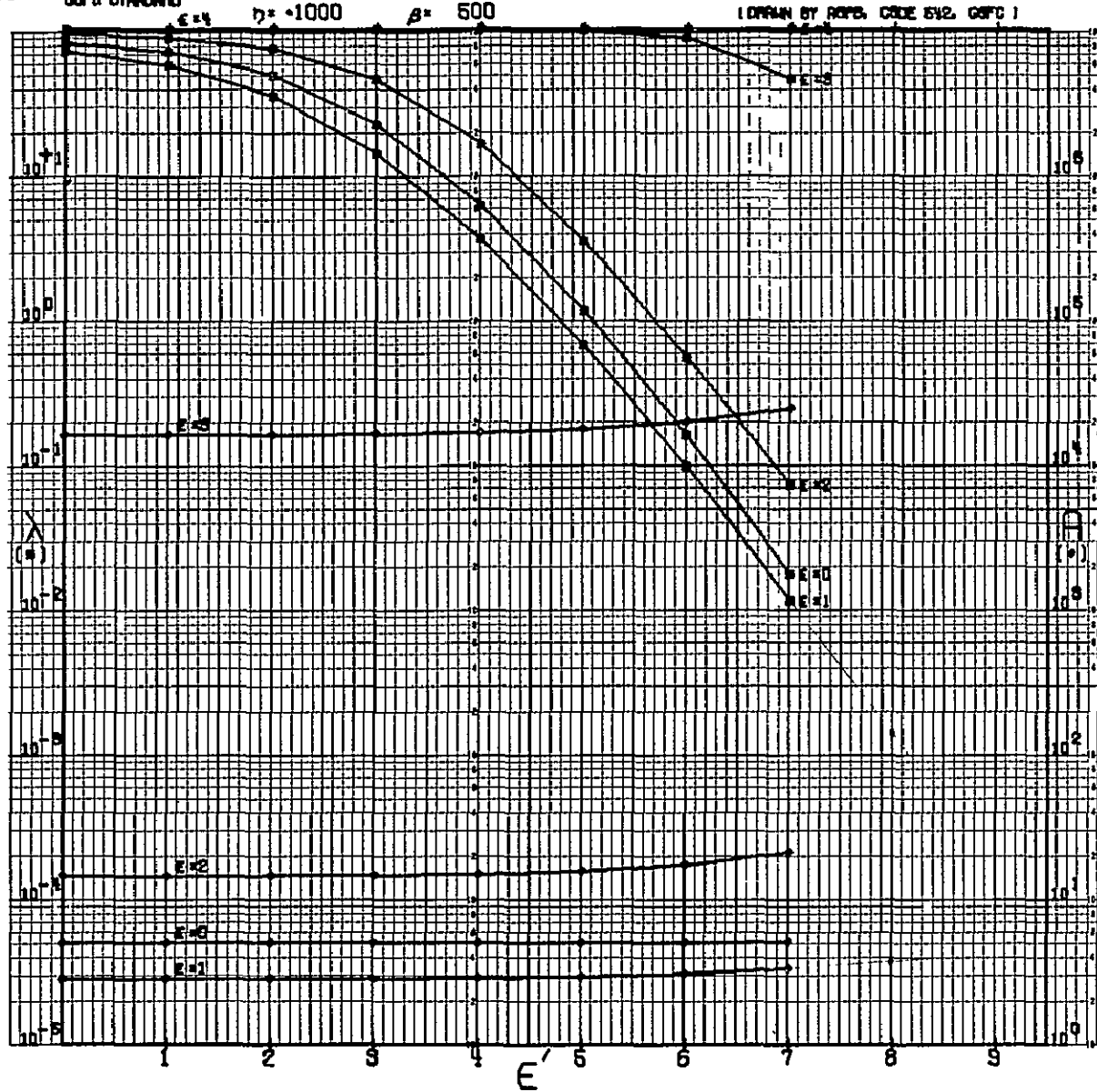
CODE 111011091010000

GFD STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ROPS, CODE 512, GFD)



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N=15

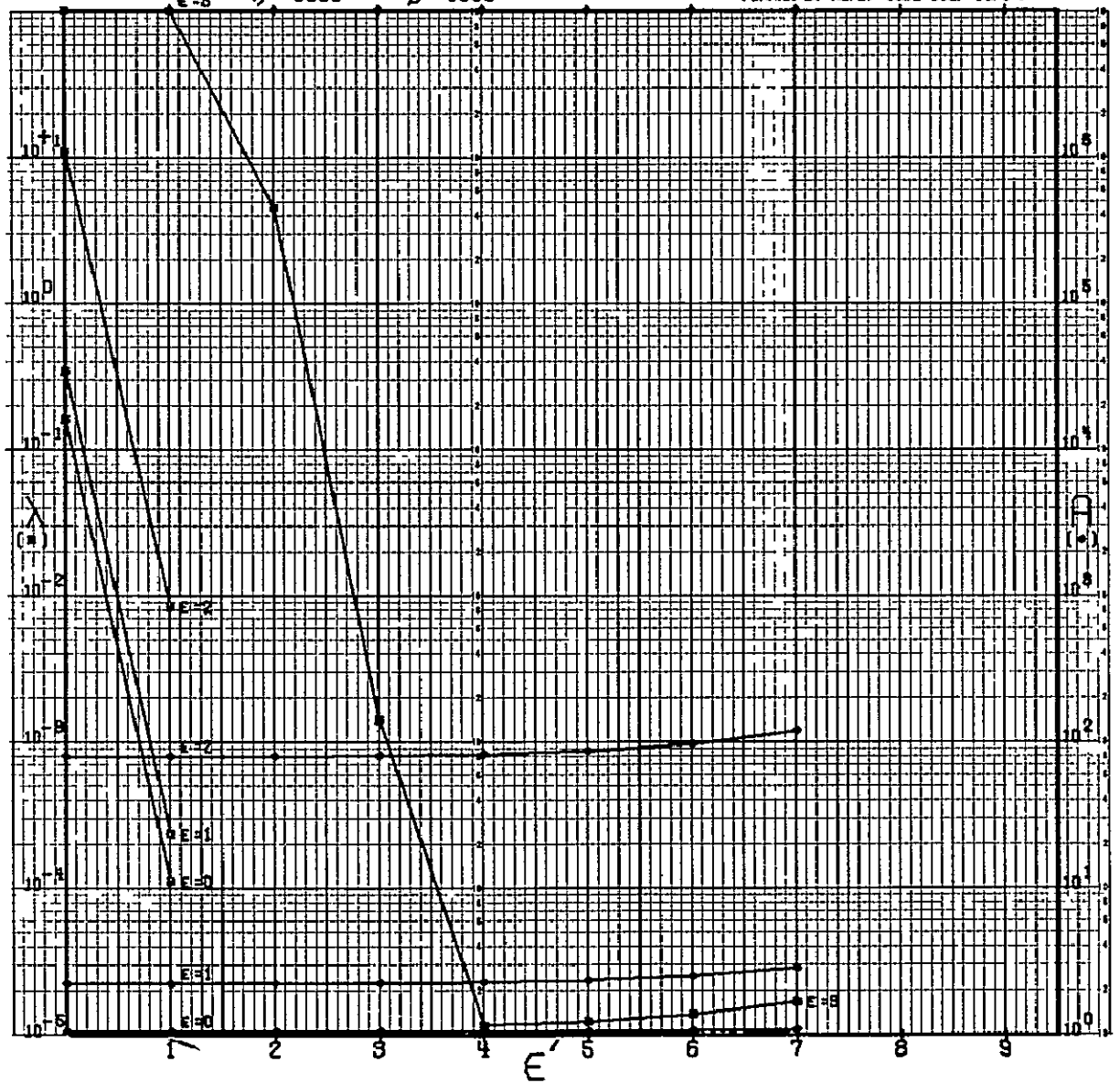
CODE 111011001010000

GSFC STANDARD

$\epsilon = 8$ $\eta = +0001$

$\beta = 1000$

(DRAWN BY ROPS, CODE 512, GSFC)



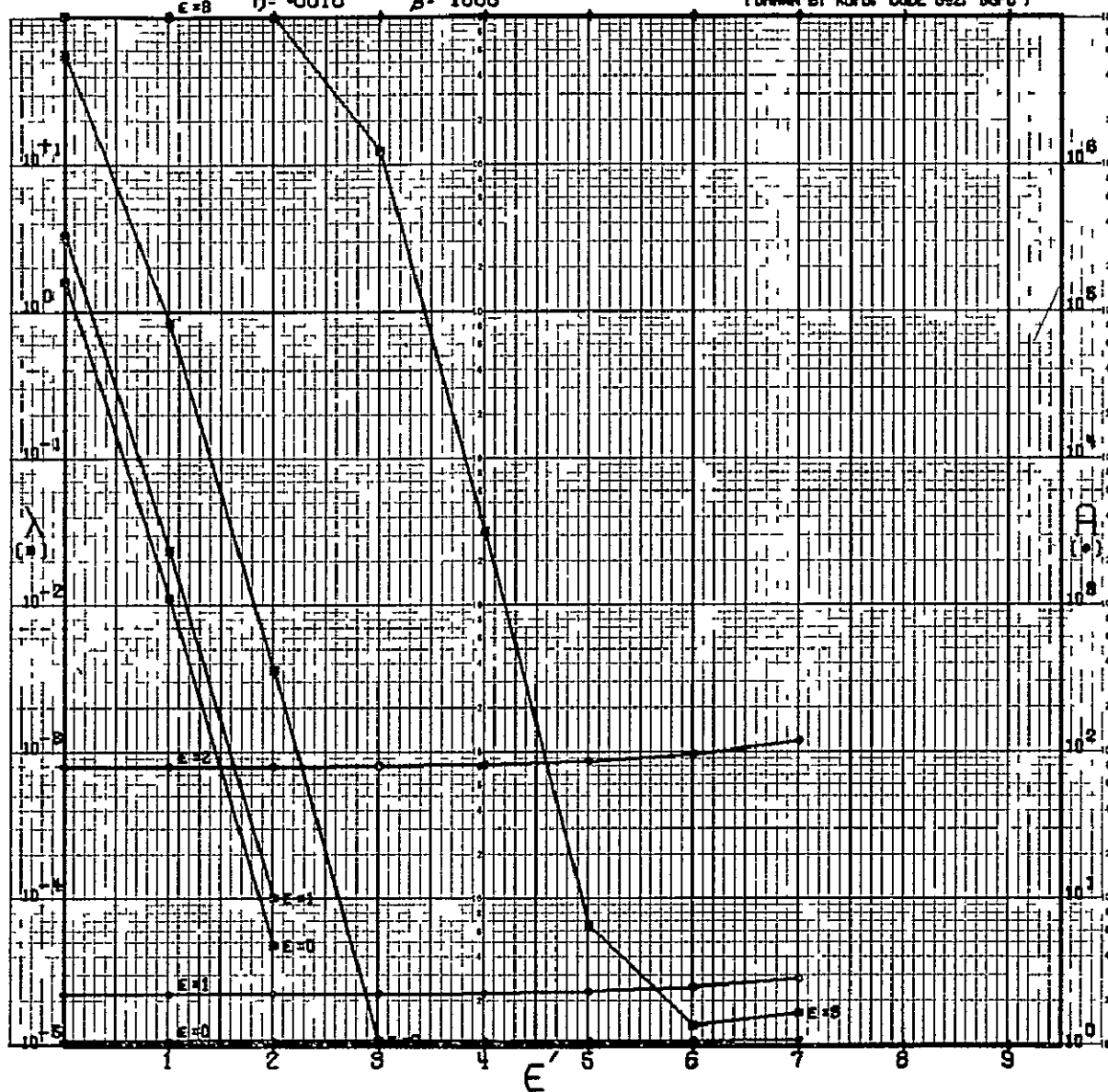
N=15

CODE 111011001010000
GSPC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPG, CODE 592, GSPC)



N = 15

CODE 111011001010000

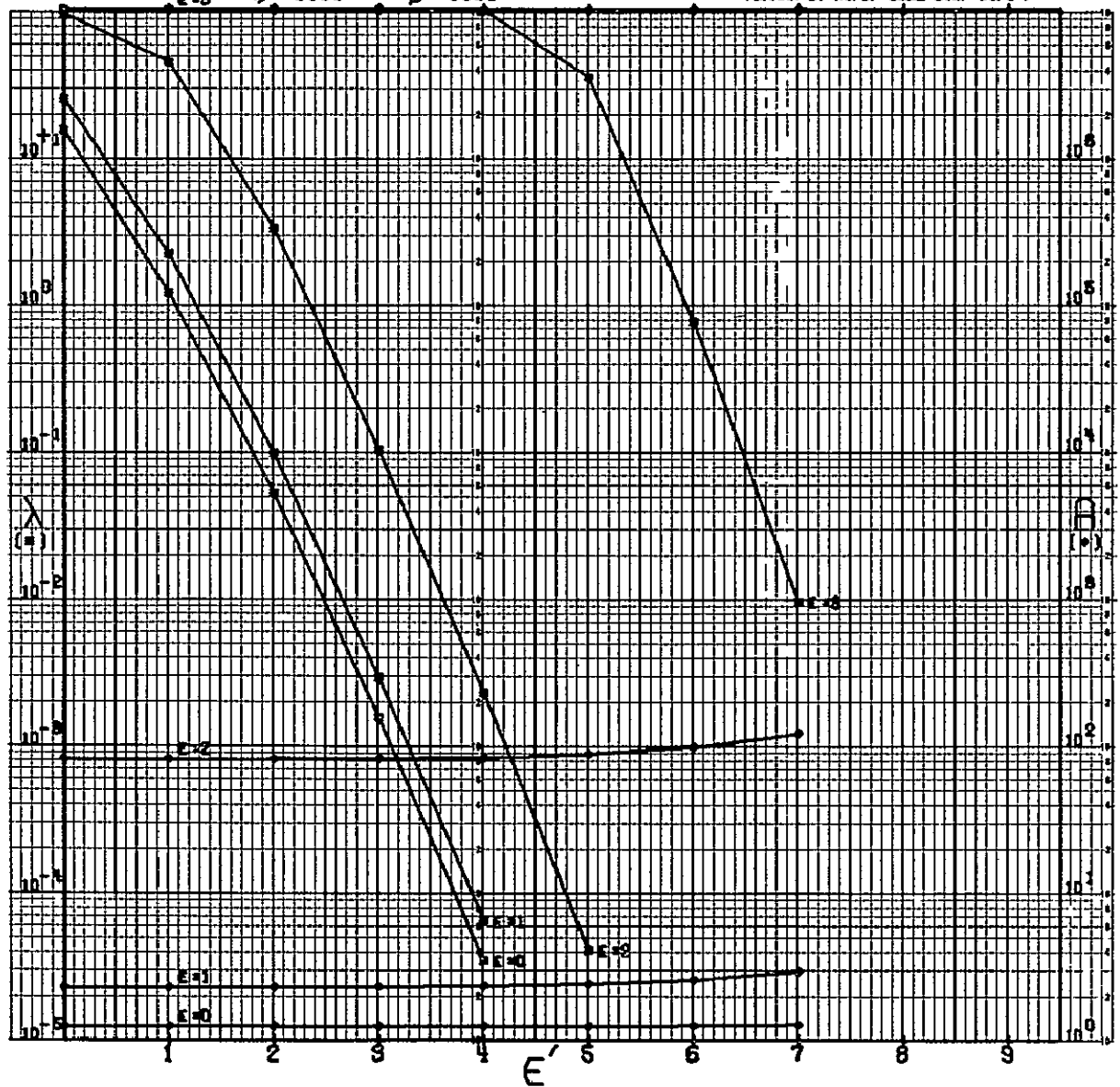
GOFC STANDARD

$\epsilon = 8$

$\eta = -0100$

$\beta = 1000$

(DRAWN BY ROPS, CODE 512, GOFC)



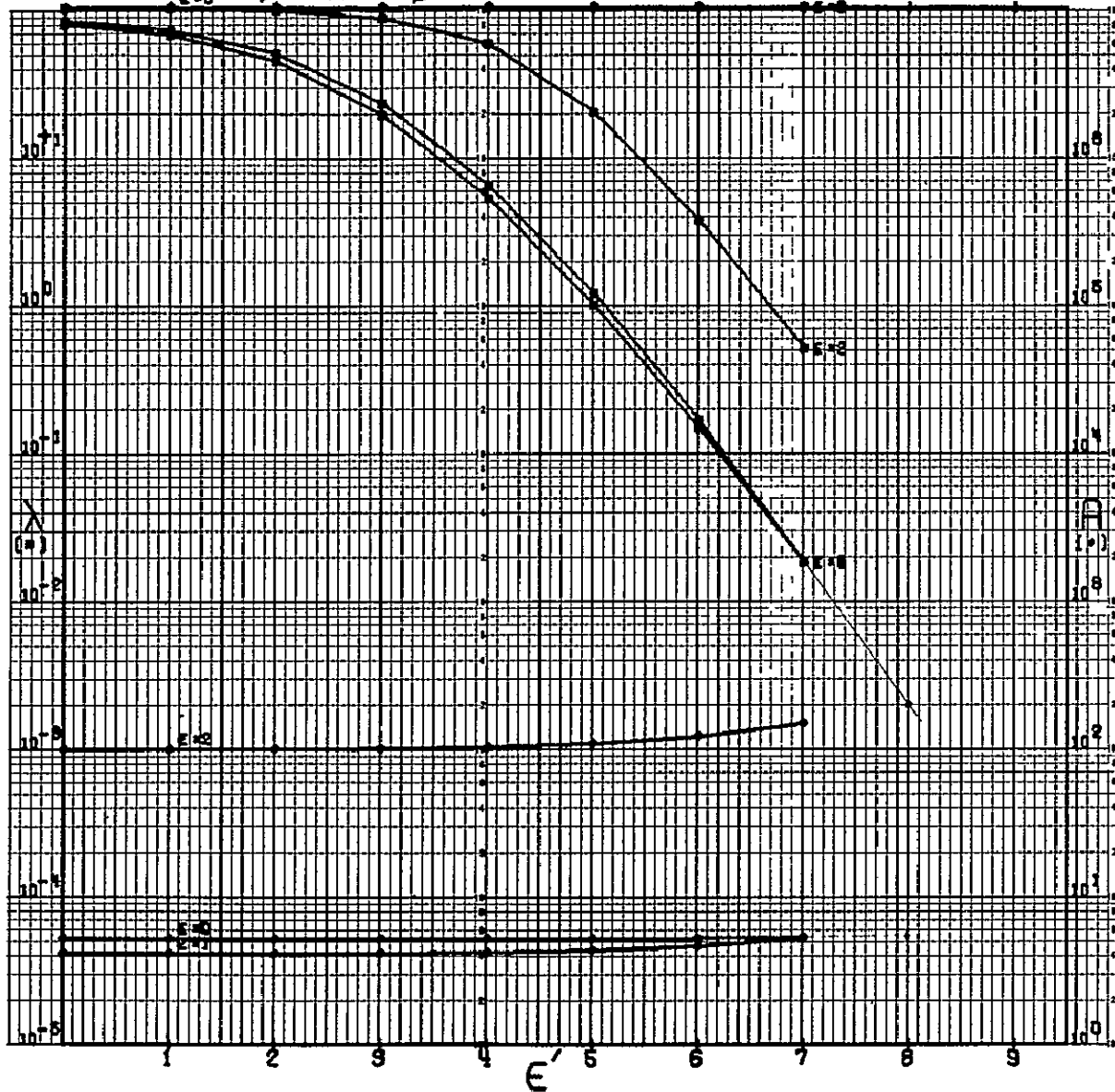
N° 15

CODE 111011001010000
GSPC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPS, CODE 512, GSPC)



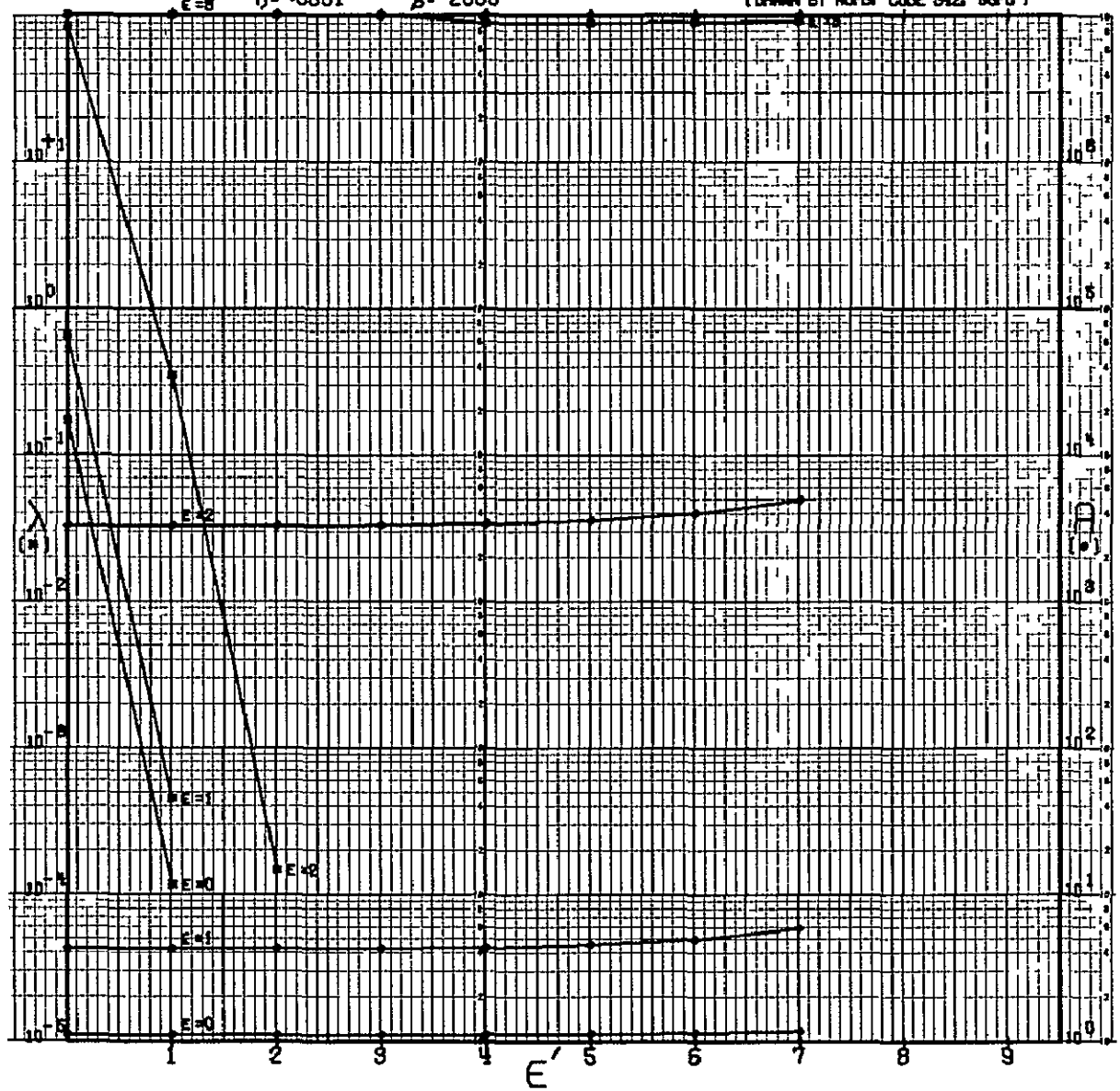
N=15

CODE 111011001010000
GSPC STANDARD

$\eta = 0.0001$

$\beta = 2000$

(DRAWN BY ROPE CODE 542, GSPC)



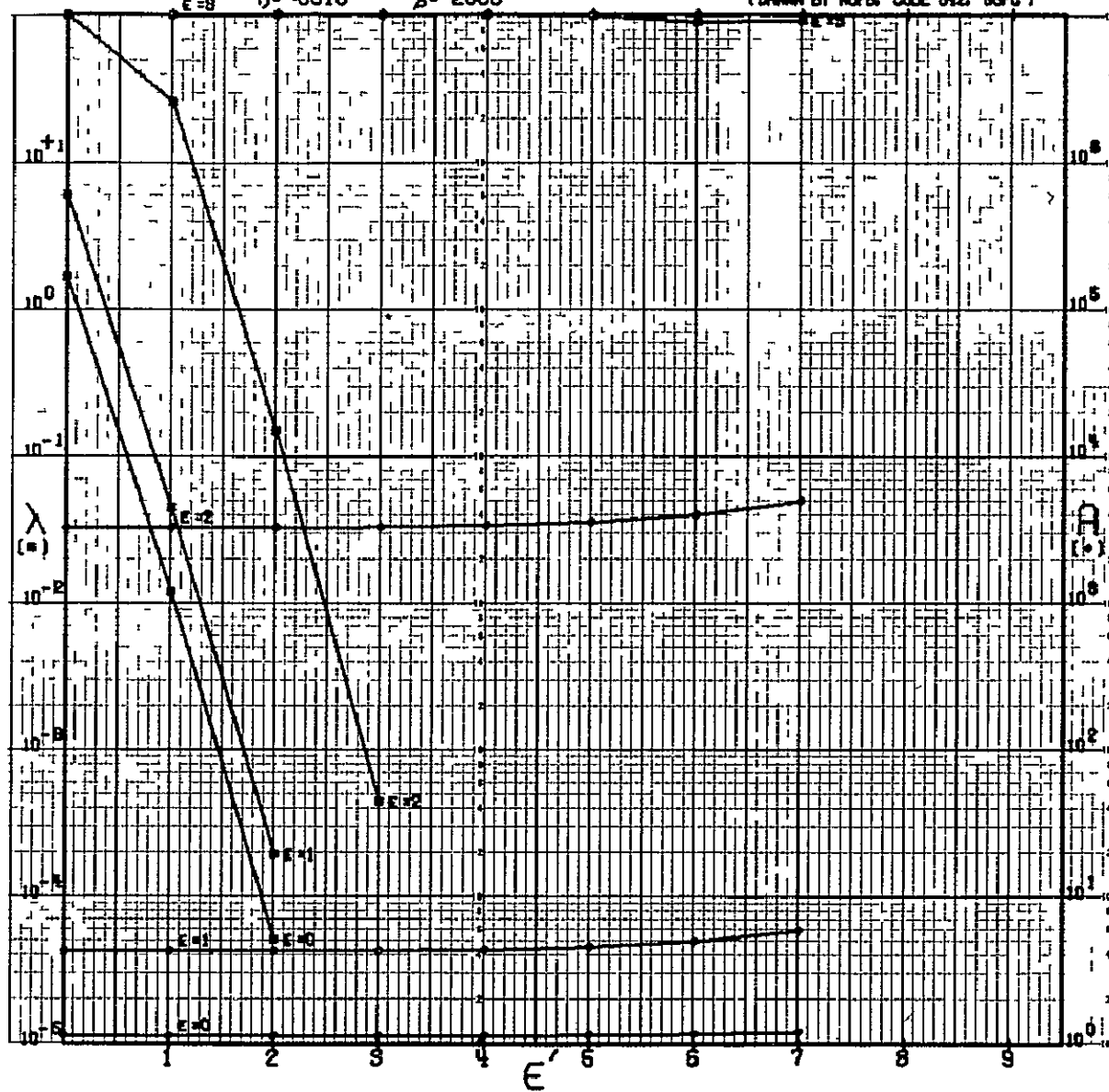
N=15

CODE 111011001010000
GSPC STANDARD

$\epsilon = 8$ $\eta = +0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 692, GSPC)



N=15

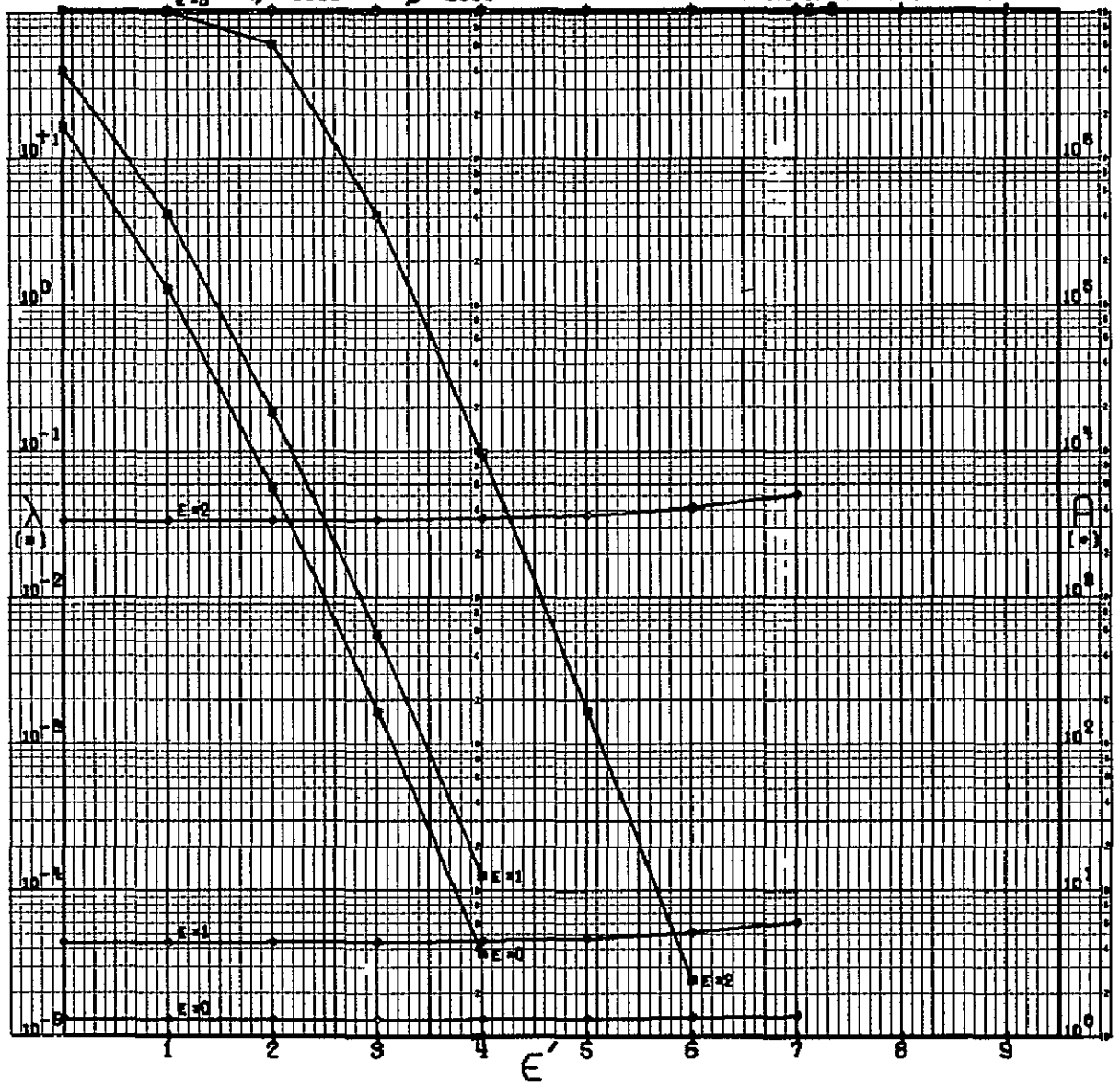
CODE 111011001010000

GEFC STANDARD

$\gamma = 0.100$

$\beta = 2000$

(DRAWN BY ACPS. CODE 512. GFC)



N=15

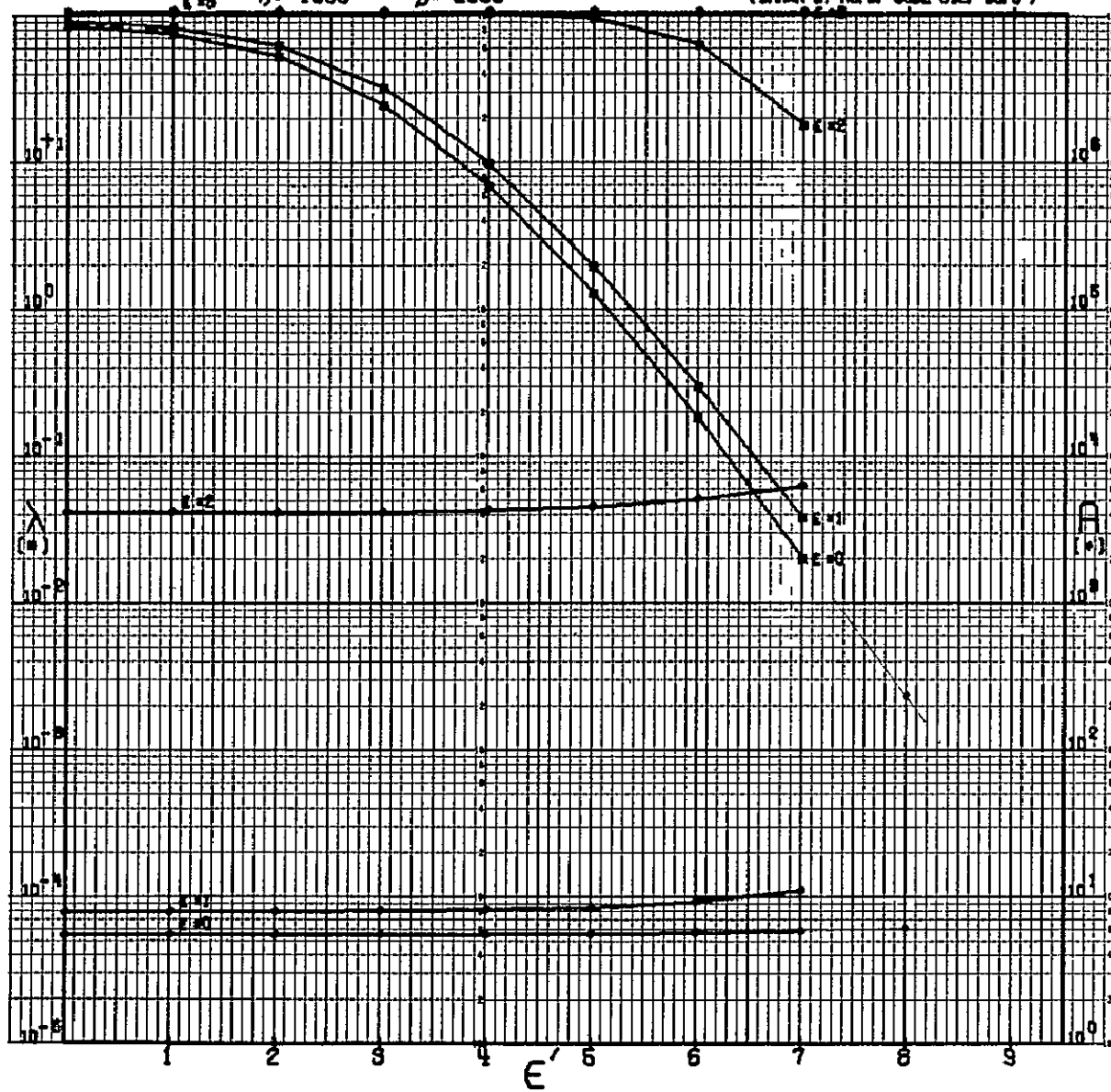
CODE 111011001010000

GRFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPES CODE 592, GRFC)



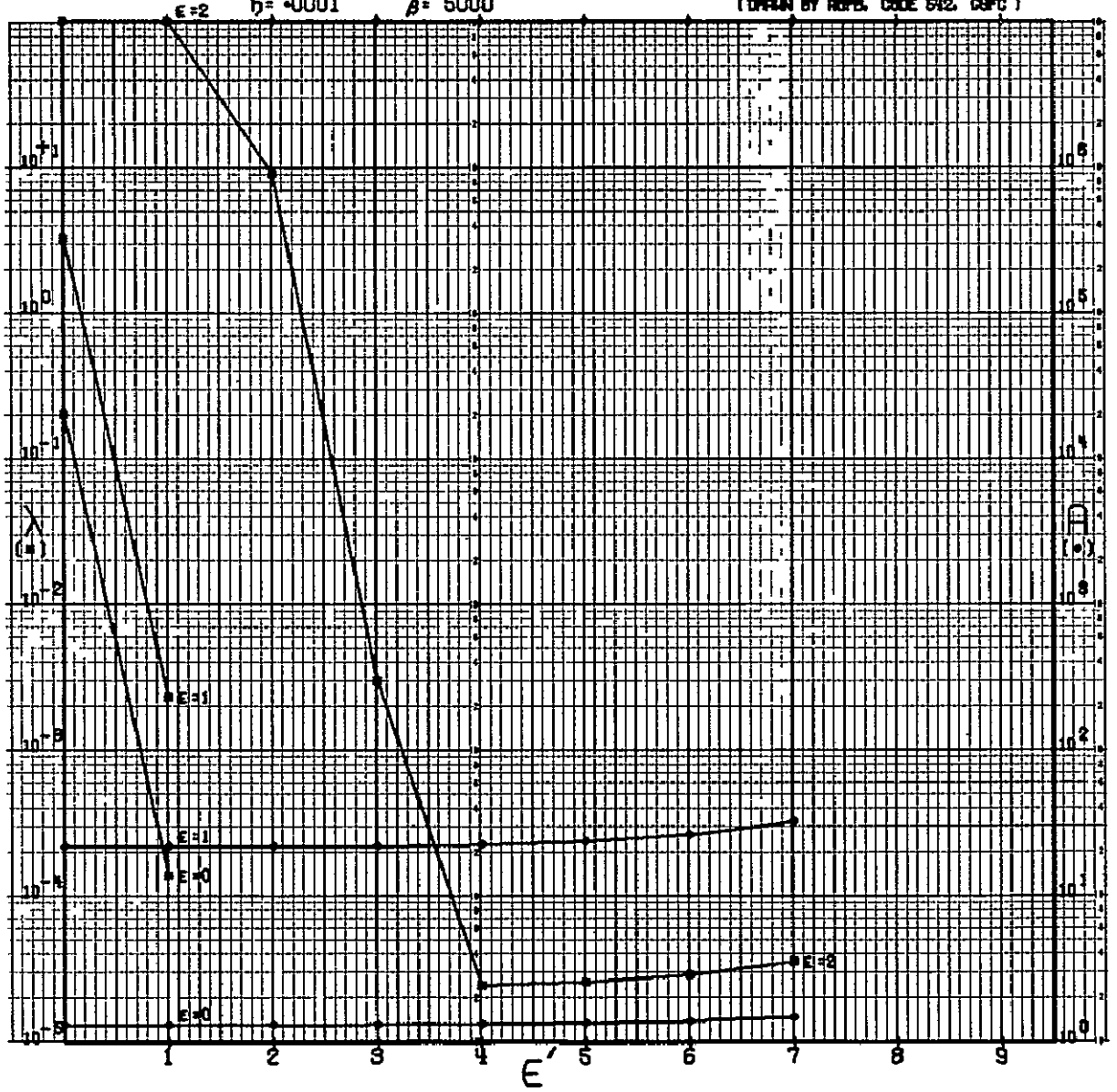
N=15

CODE 111011001010000
GSPC STANDARD

$\eta = 0.0001$

$\beta = 5000$

(DRAWN BY ROPE, CODE 542, GSPC)



N=15

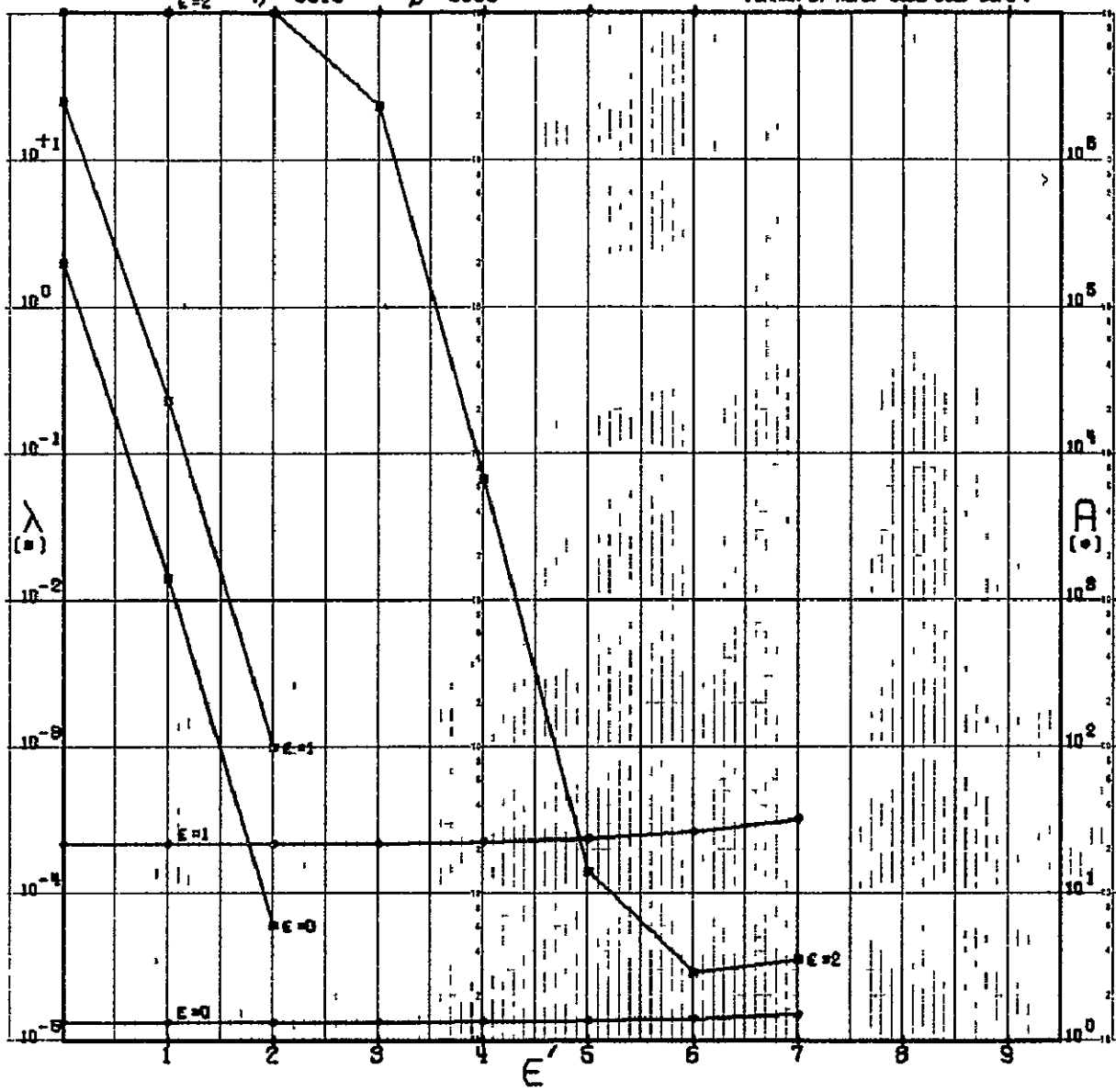
CODE 111011001010000

GOFC STANDARD

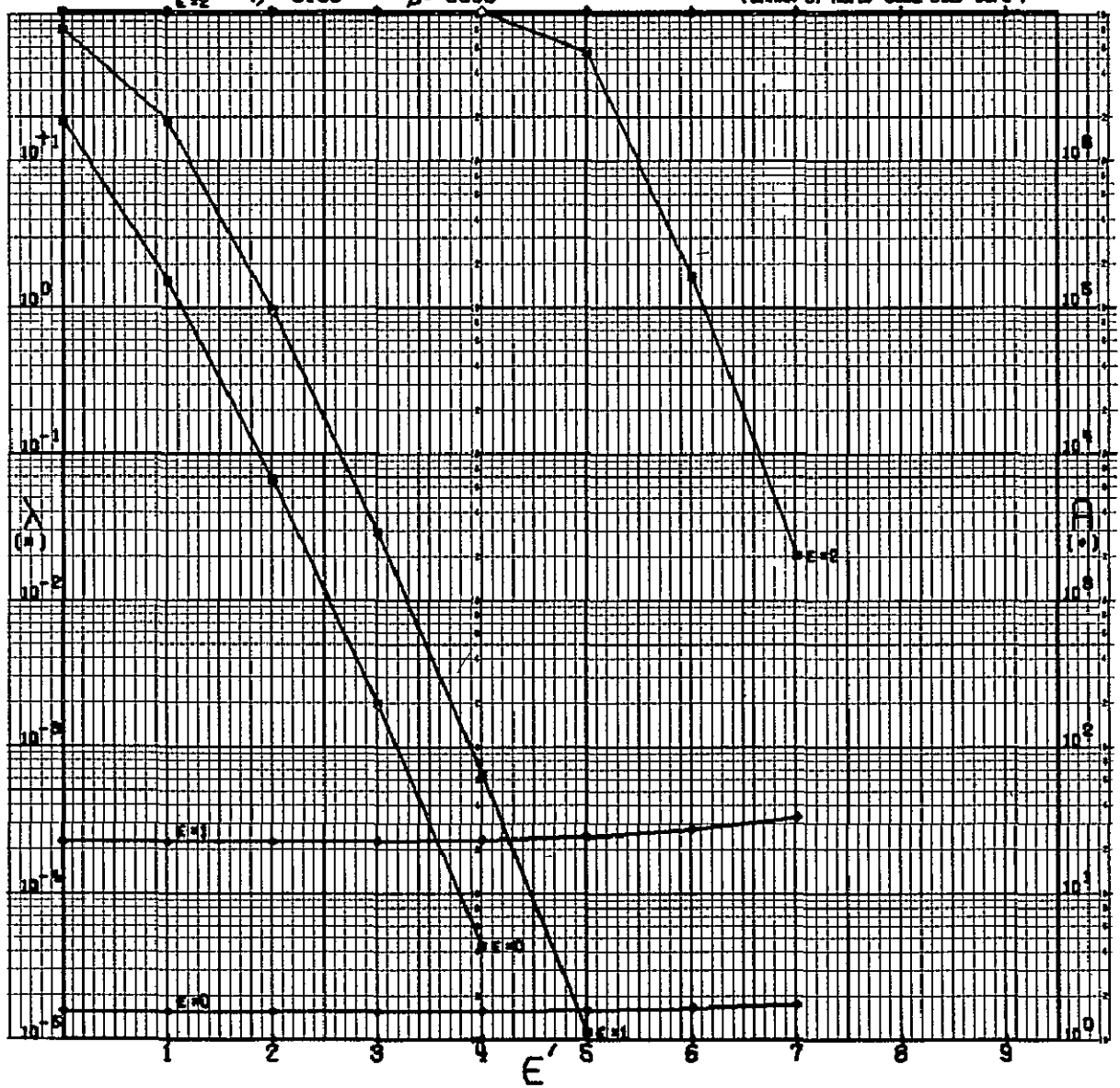
$\eta = .0010$

$\beta = 5000$

(OBTAIN BY NCFB, CODE 592, GOFC)



N = 15 CODE 111011001010000
 GSPC, STANDARD $\epsilon = 2$ $\eta = 0.100$ $\beta = 5000$ (DRAWN BY ROFS, CODE 592, GSPC)



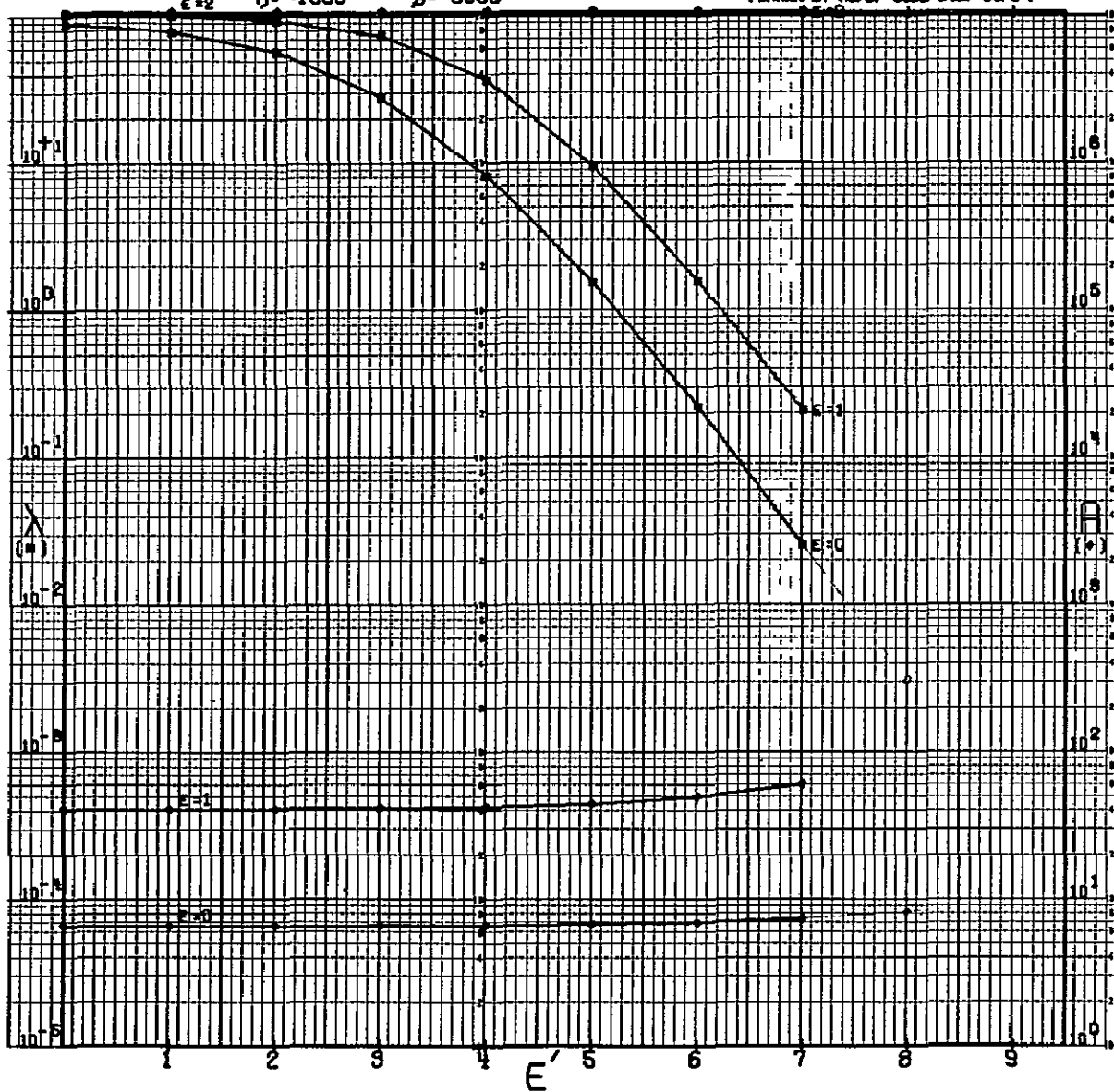
N=15

CODE 111011001010000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROMB. CODE 542. GSFC)



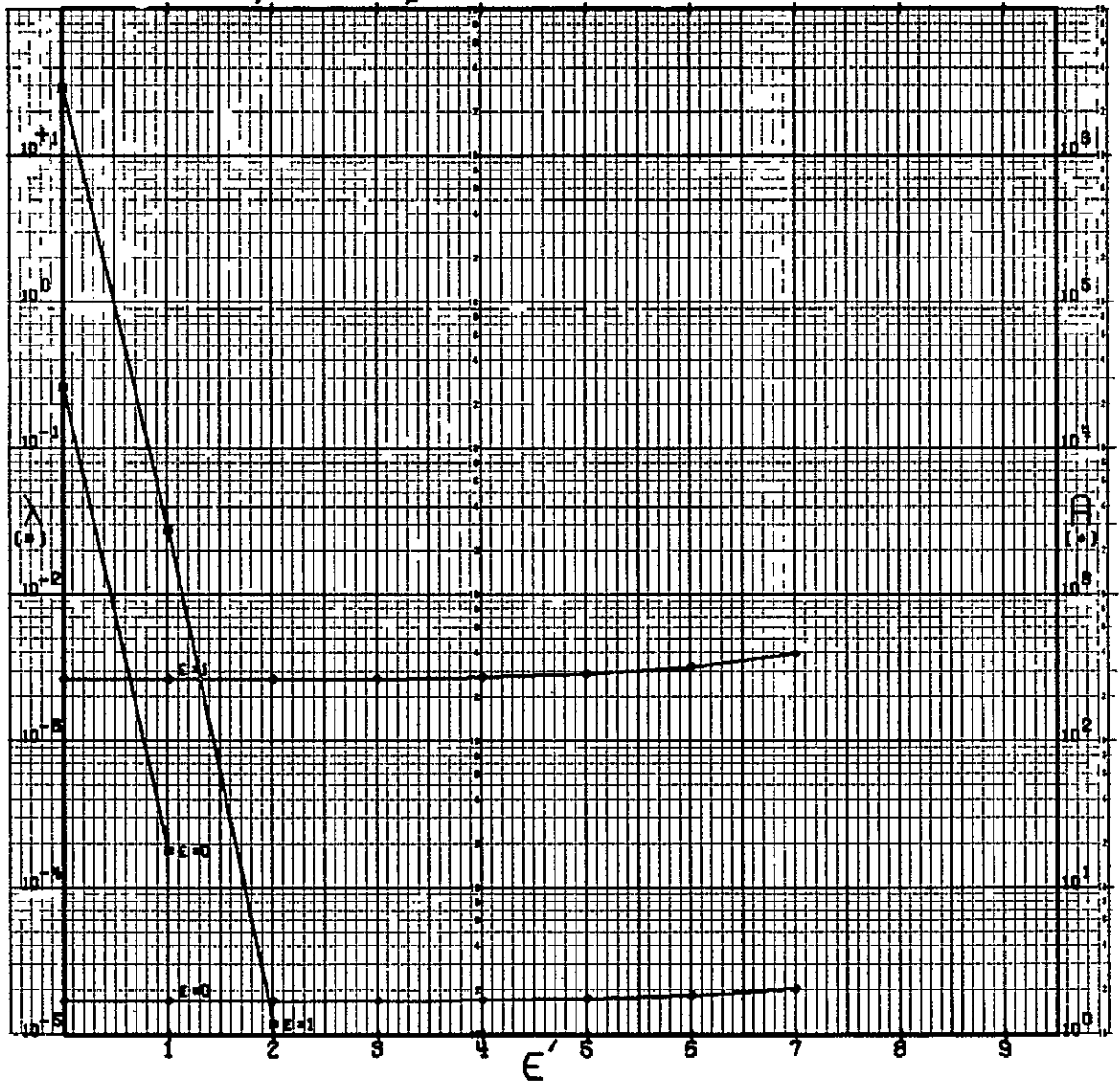
N=15

CODE 111011001010000
GSPC STANDARD

$\eta = .0001$

$\beta = 10000$

(DRAWN BY ROPS, CODE 512, GSPC)



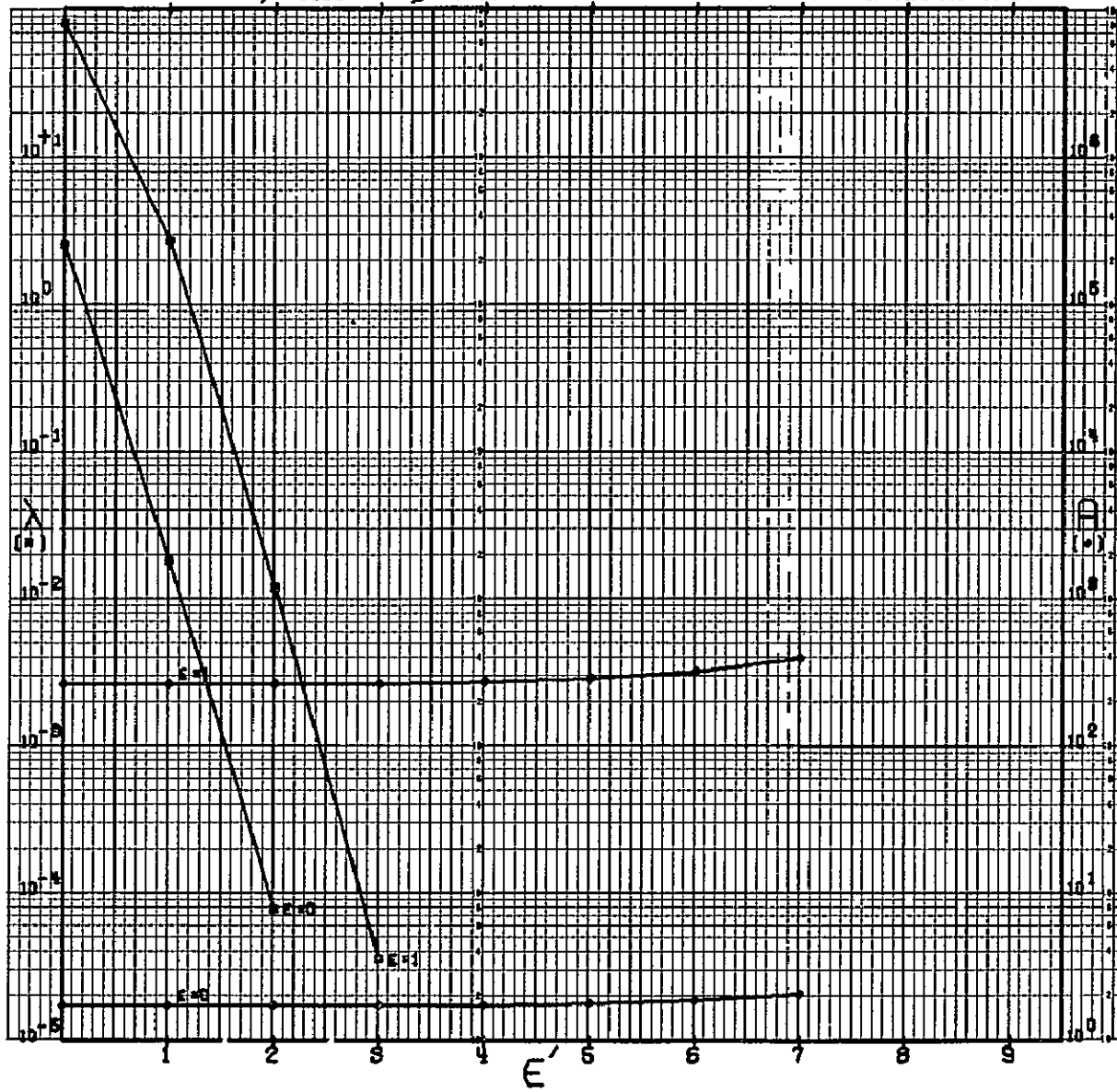
N=15

CODE 111011001010000
GEFC STANDARD

$\eta = -0010$

$\beta = 10000$

(DRAWN BY ADP8, CODE 562, GFC)



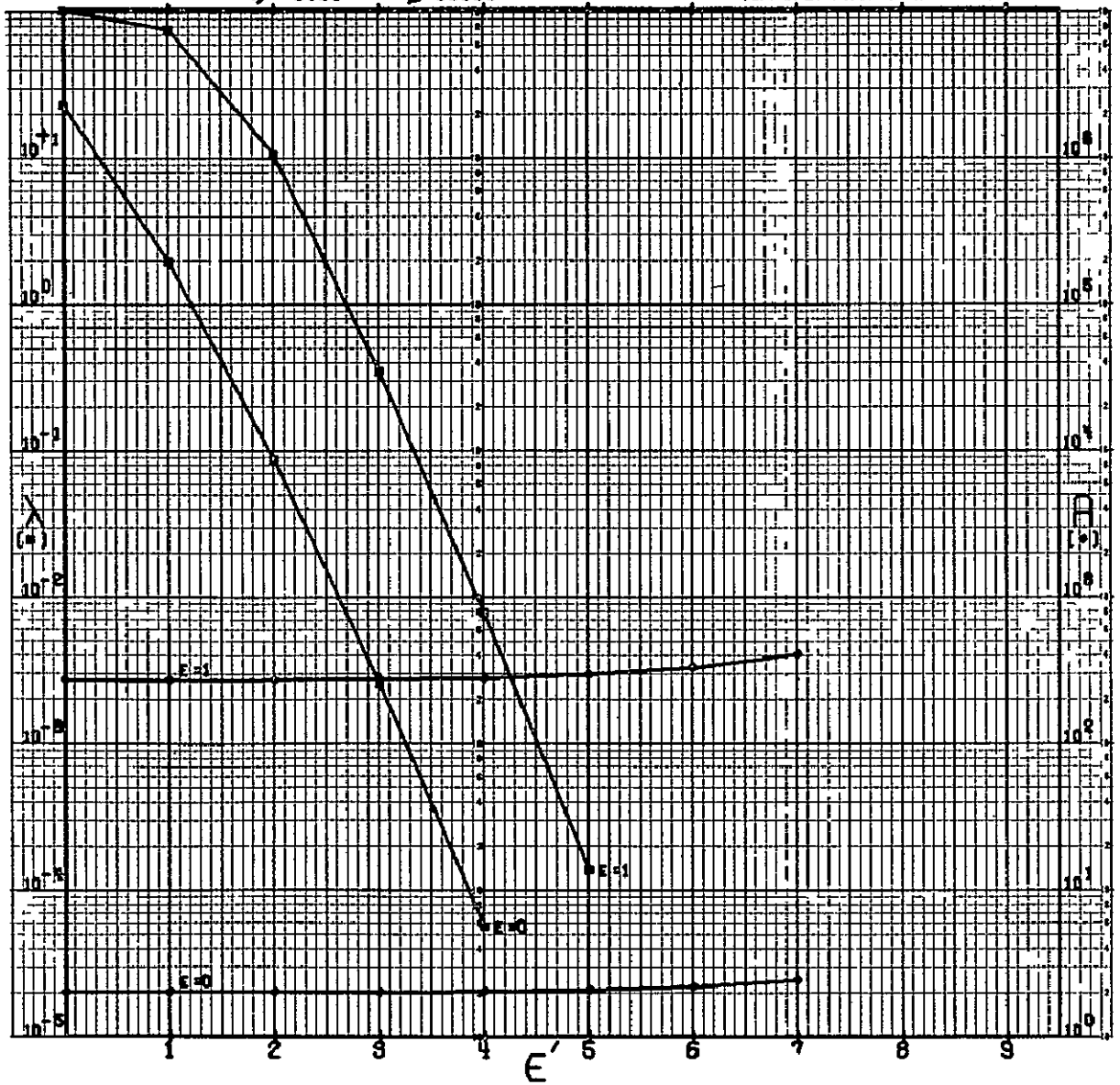
N*15

CODE 111011001010000
GSPC STANDARD

$\eta = -0100$

$\beta = 10000$

(ORIGIN BY ROPS CODE 512 GSPC)



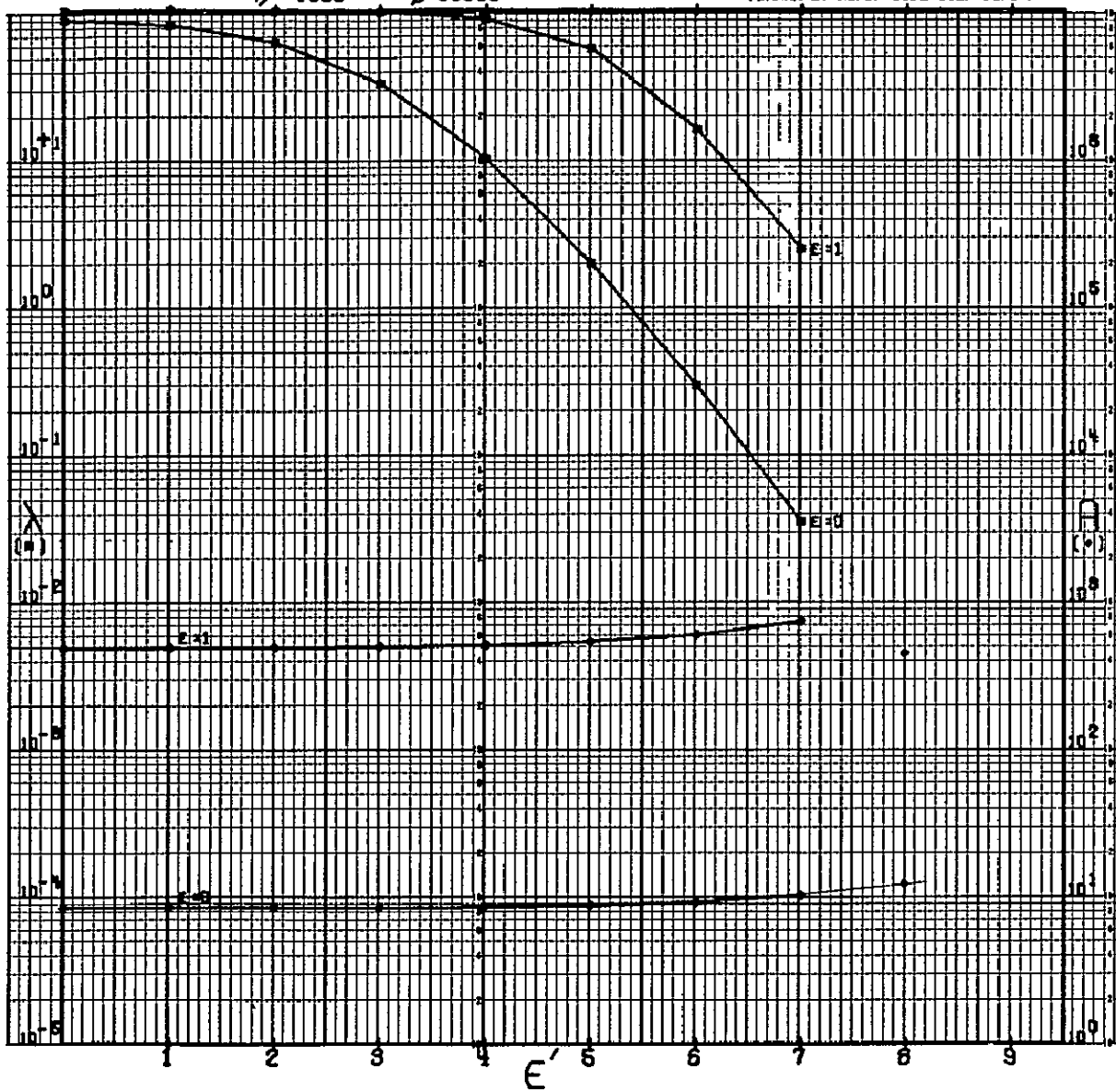
N=15

CODE 111013001010000
GFC STANDARD

$\sigma = 1000$

$\beta = 10000$

(DRAWN BY ROPC CODE 512, GFC)



A-250

X

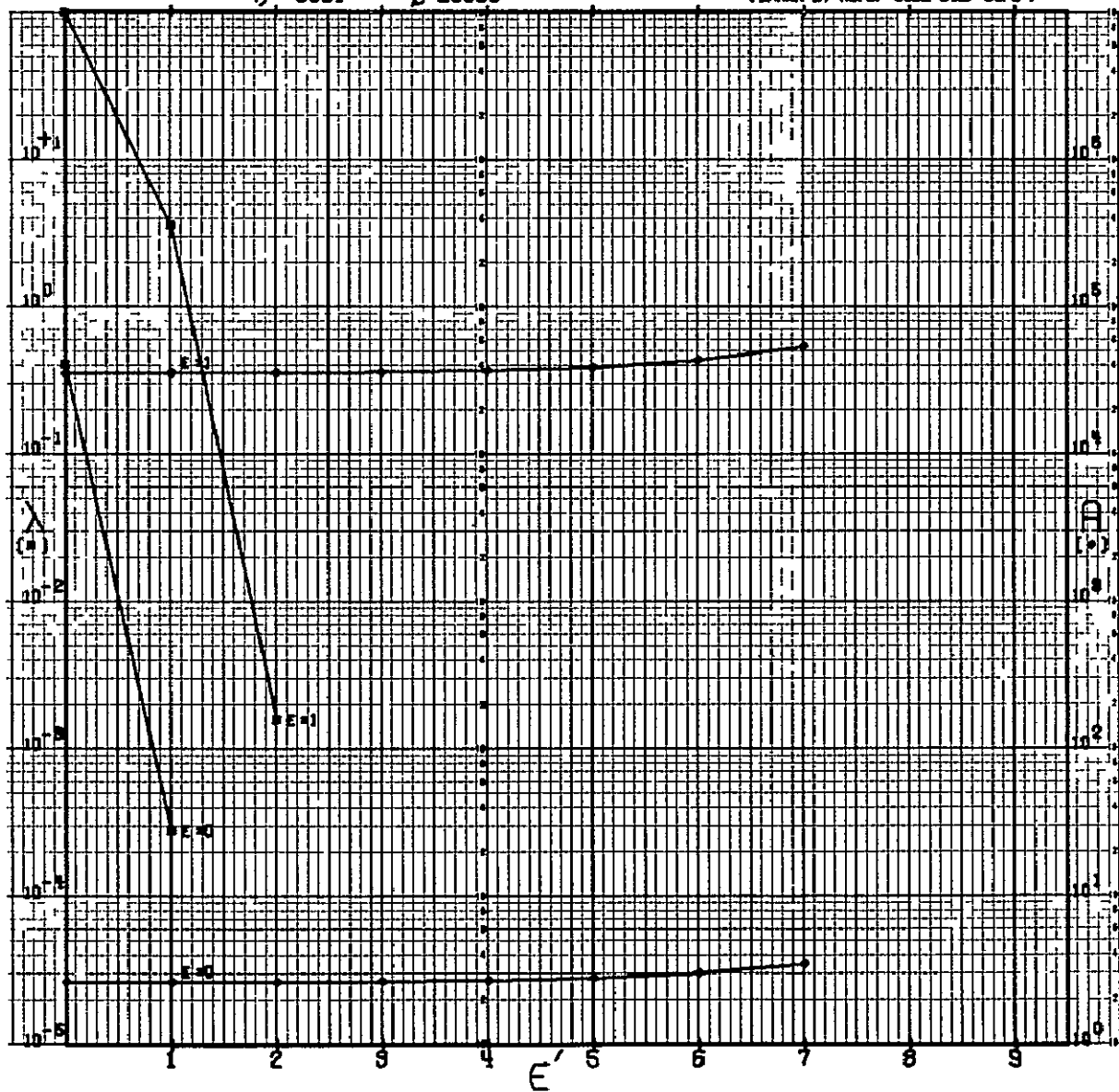
N = 15

CODE 111011001010000
GFC STANDARD

$\eta = -0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 512, GFC)



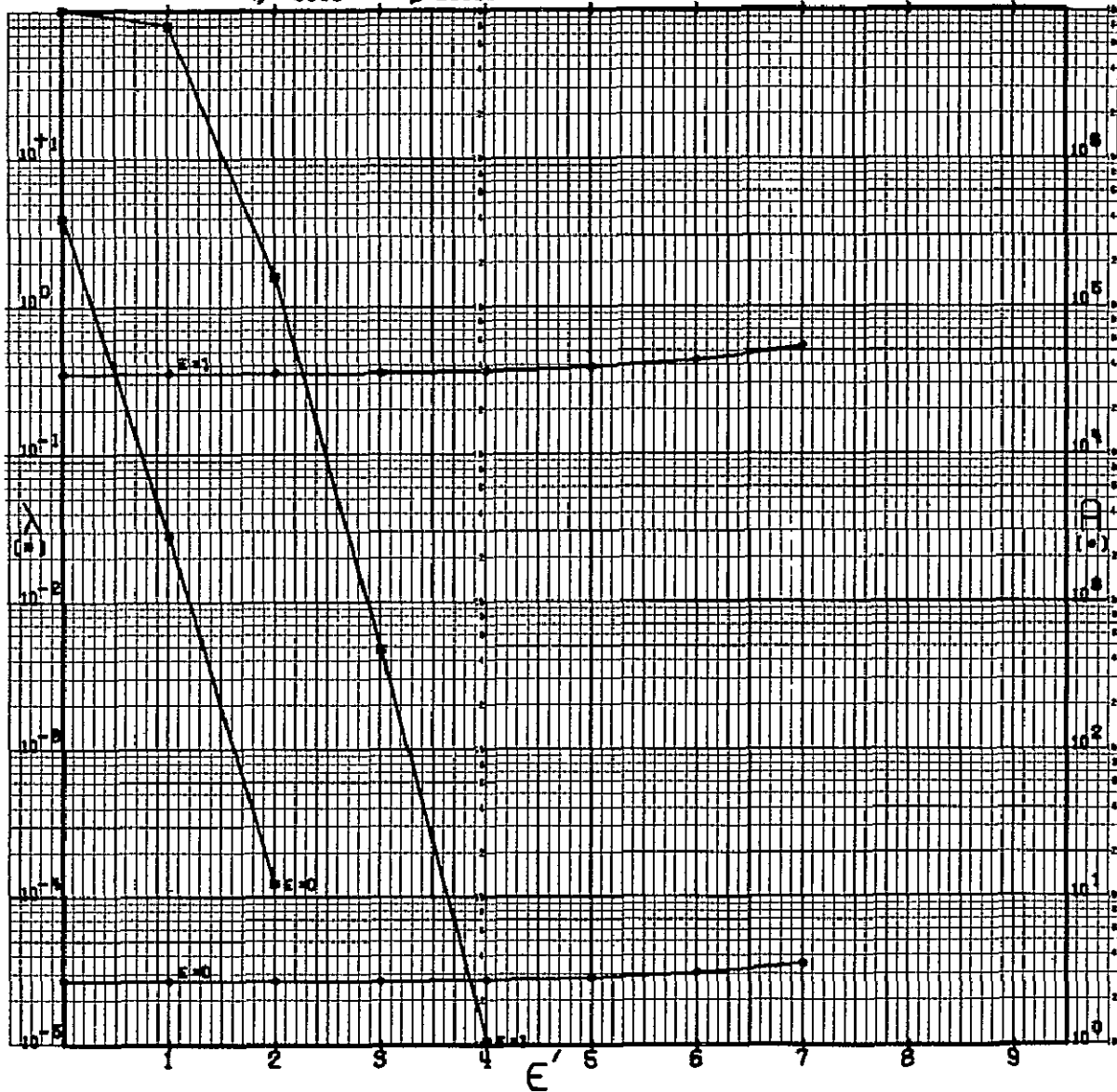
N=15

CODE 111011001010000
GPG STANDARD

$\eta = -0010$

$\beta = 20000$

(DRAWN BY ROPS, CODE 592, GPG)



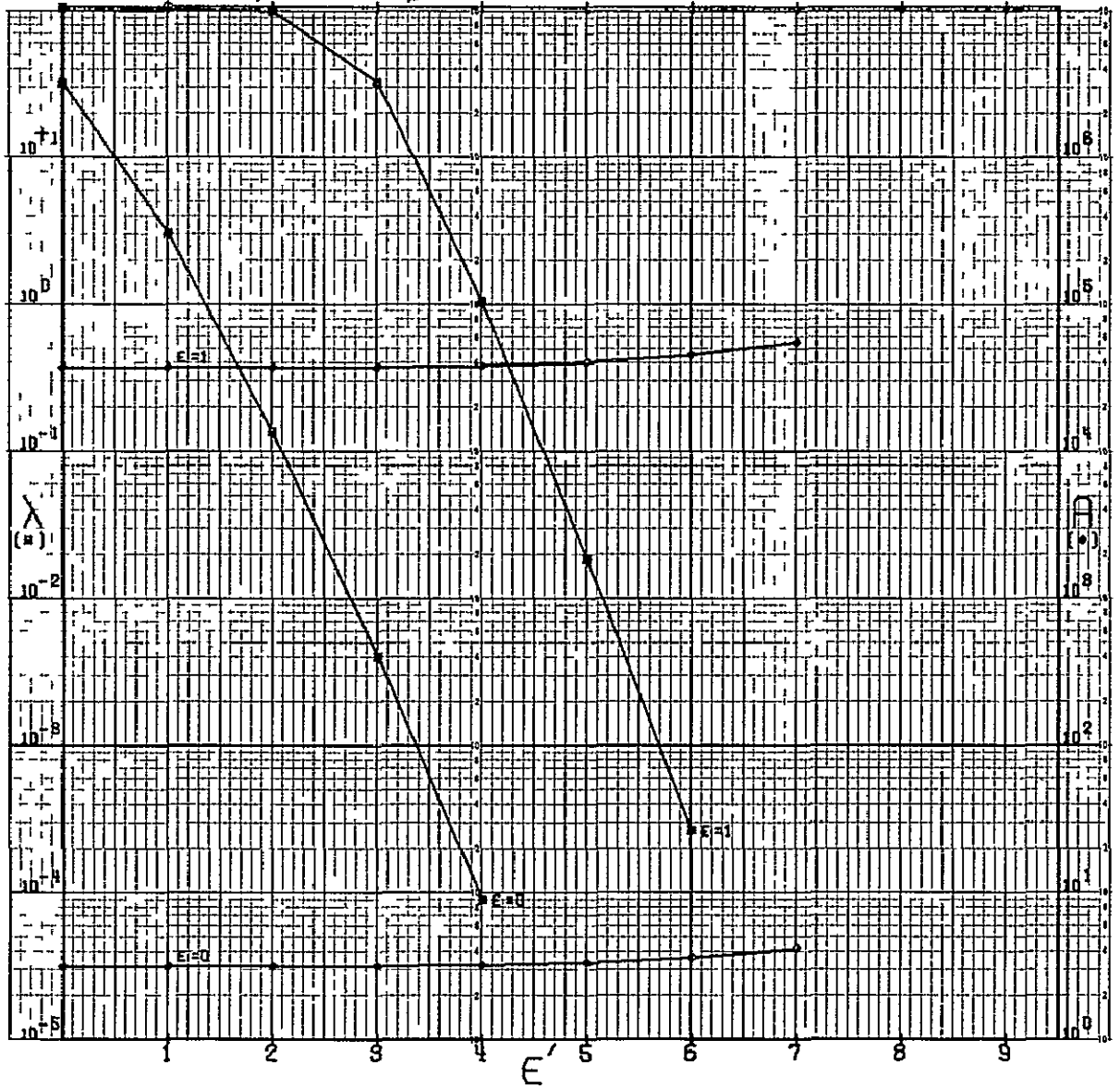
N = 15

CODE 111013001010000
GSFC STANDARD

$\eta = -0.100$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



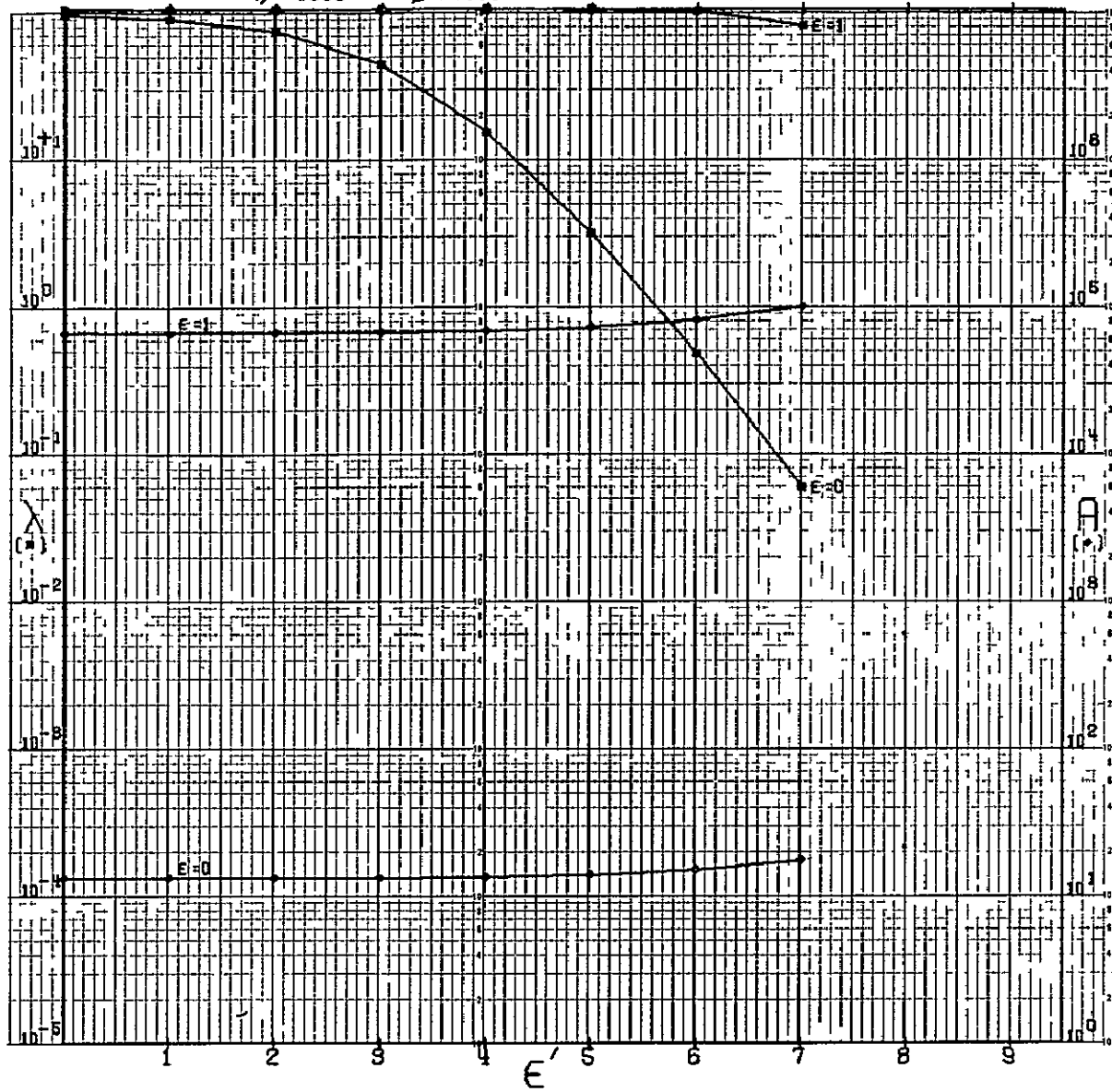
N=15

CODE 111011001010000
GSFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



$$N = 16$$

N=16

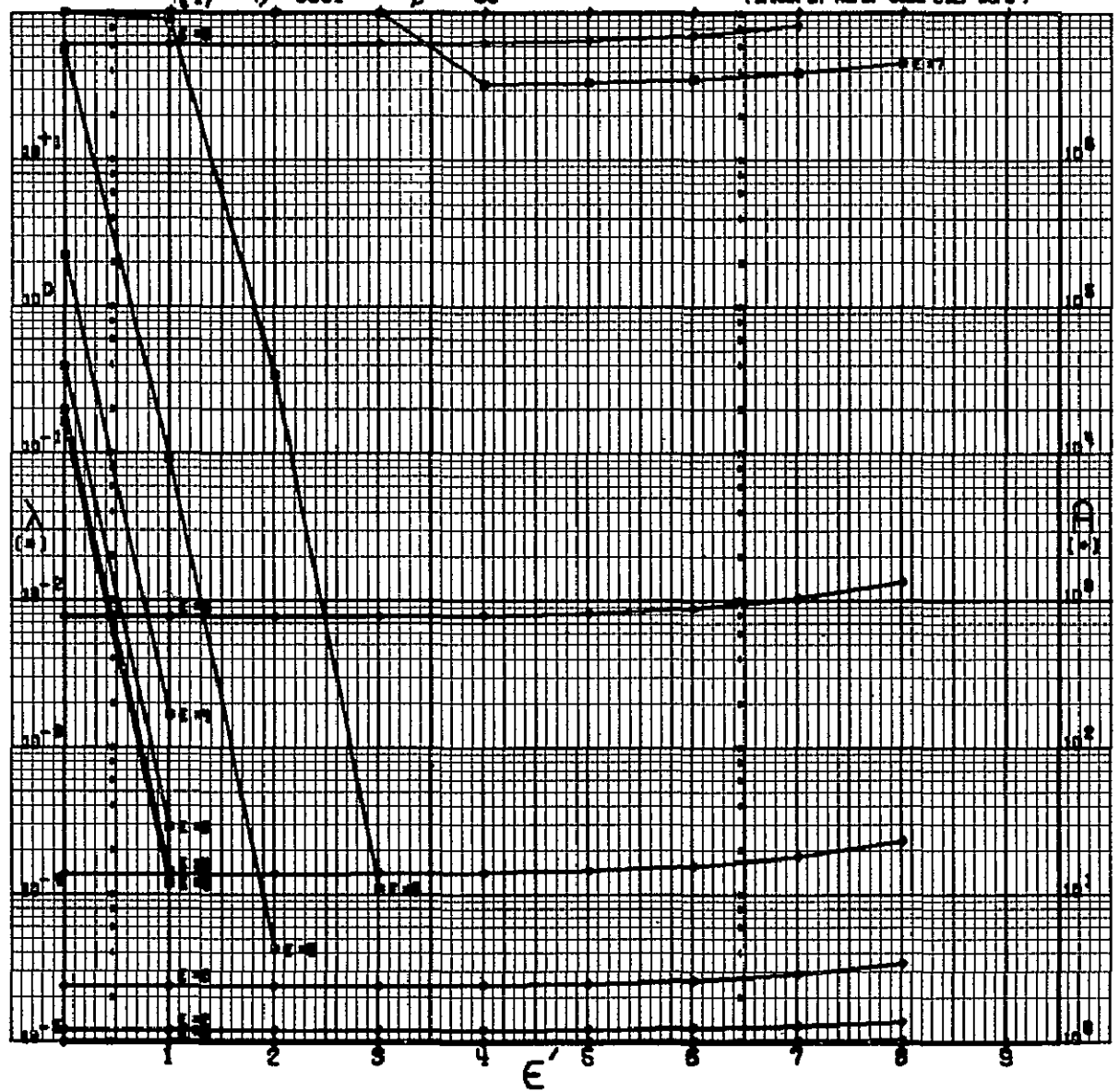
CODE 1110101110010000

GPFC STANDARD

$\epsilon = 7$ $\eta = -0001$

$\beta = 50$

(DRAWN BY NRPB, CODE 1902, GPFC)



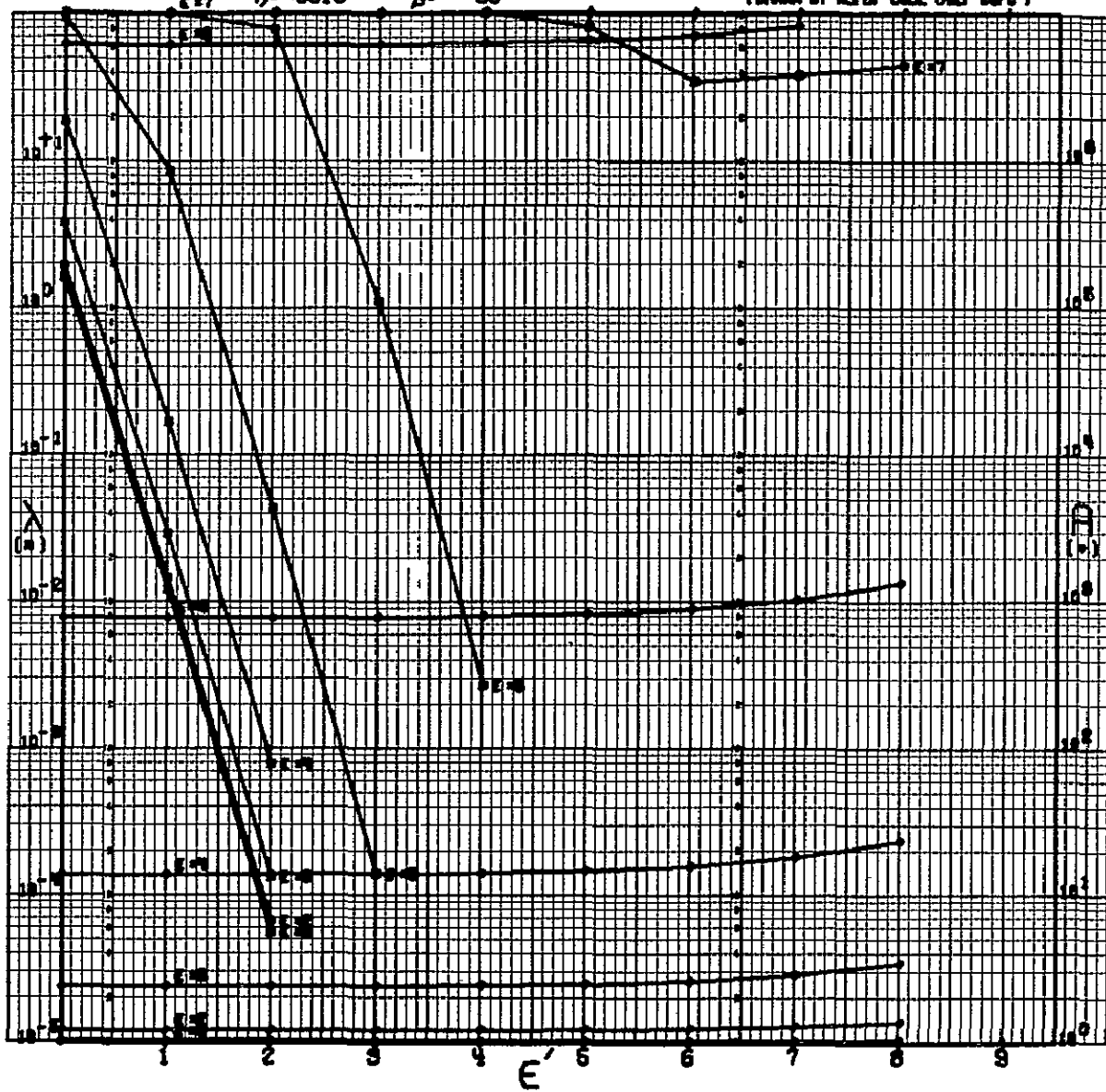
N = 16

CAGE 1110101310010000
SEFC STANDARD

$\eta = 0.010$

$\beta = 50$

(GRAPH BY NORS. OCE. ENG. SEFC)



N 16

CODE 111010110010000

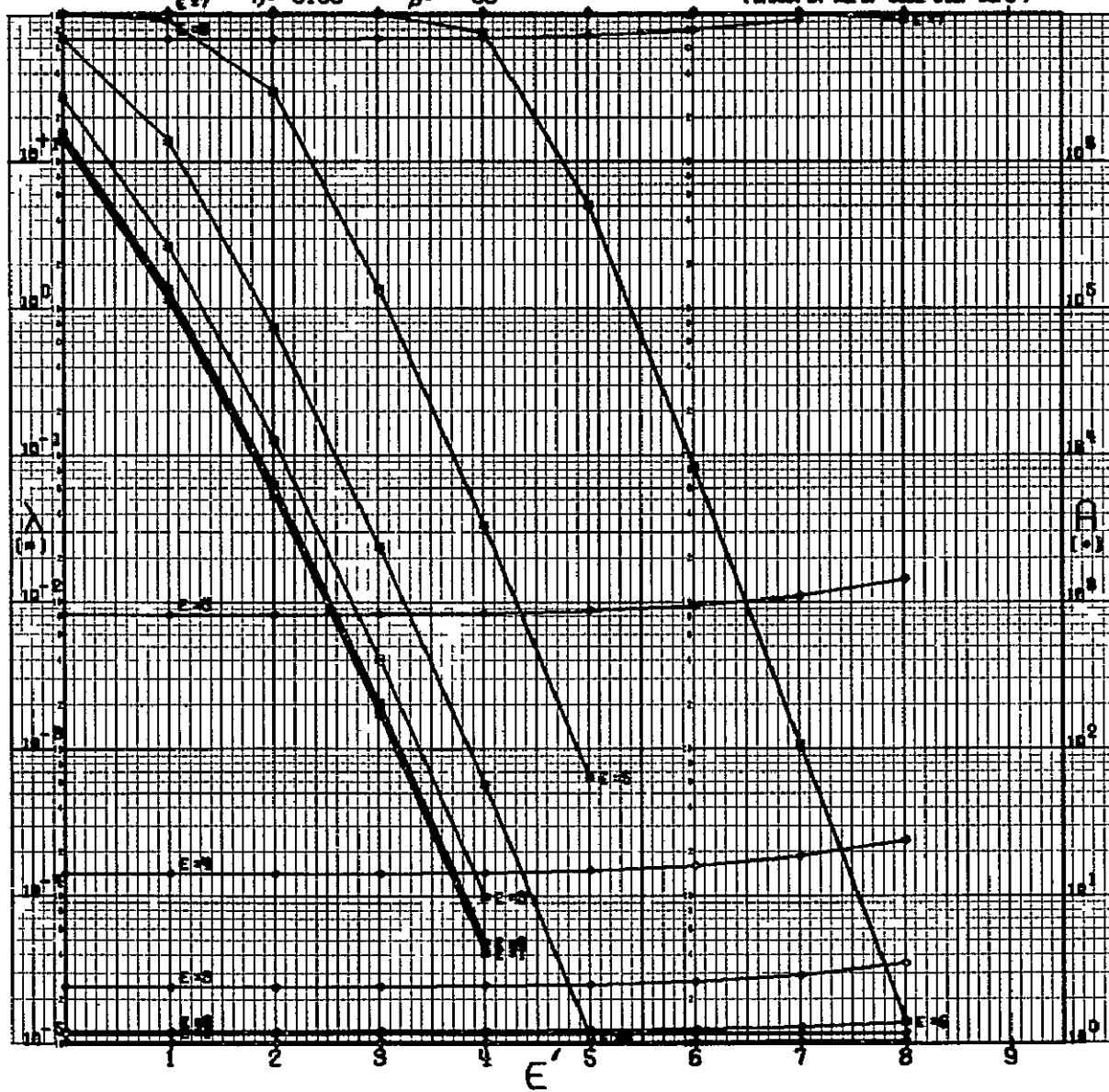
CSFC STANDARD

$\epsilon = 7$

$\eta = -0.100$

$\beta = 50$

(ORIGIN BY 02P5, CODE 592, CSFC)



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N=16

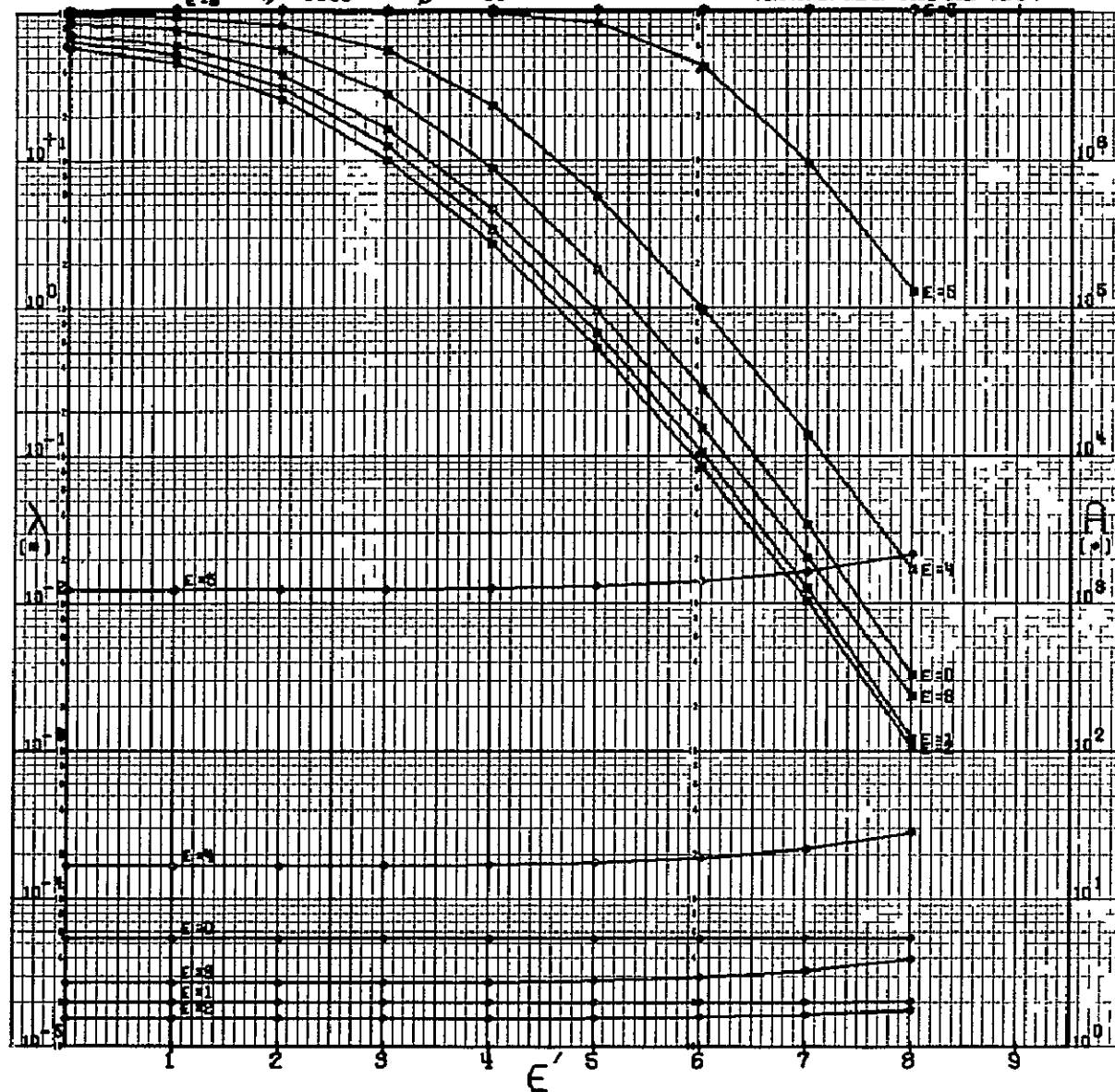
CODE 1110101110010000

GBFC STANDARD

$\eta = 1000$

$\beta = 50$

(DRAWN BY ROMP. CODE 542, GBFC)



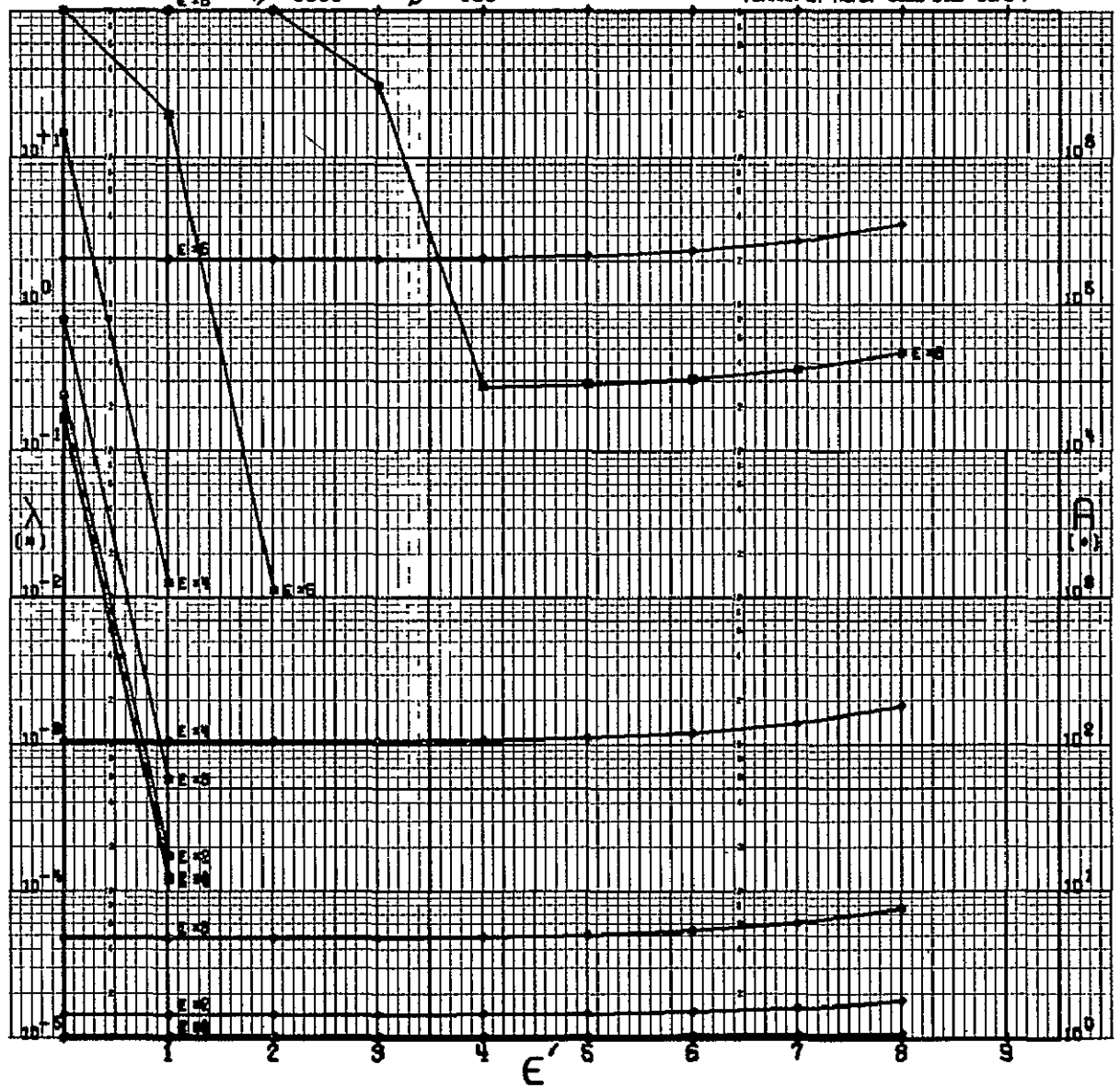
N=16

CODE 1110101110010000
GFC STANDARD

$\eta = +0001$

$\beta = 100$

(DRAWN BY ROND, CODE 1512, GFC)



N*16

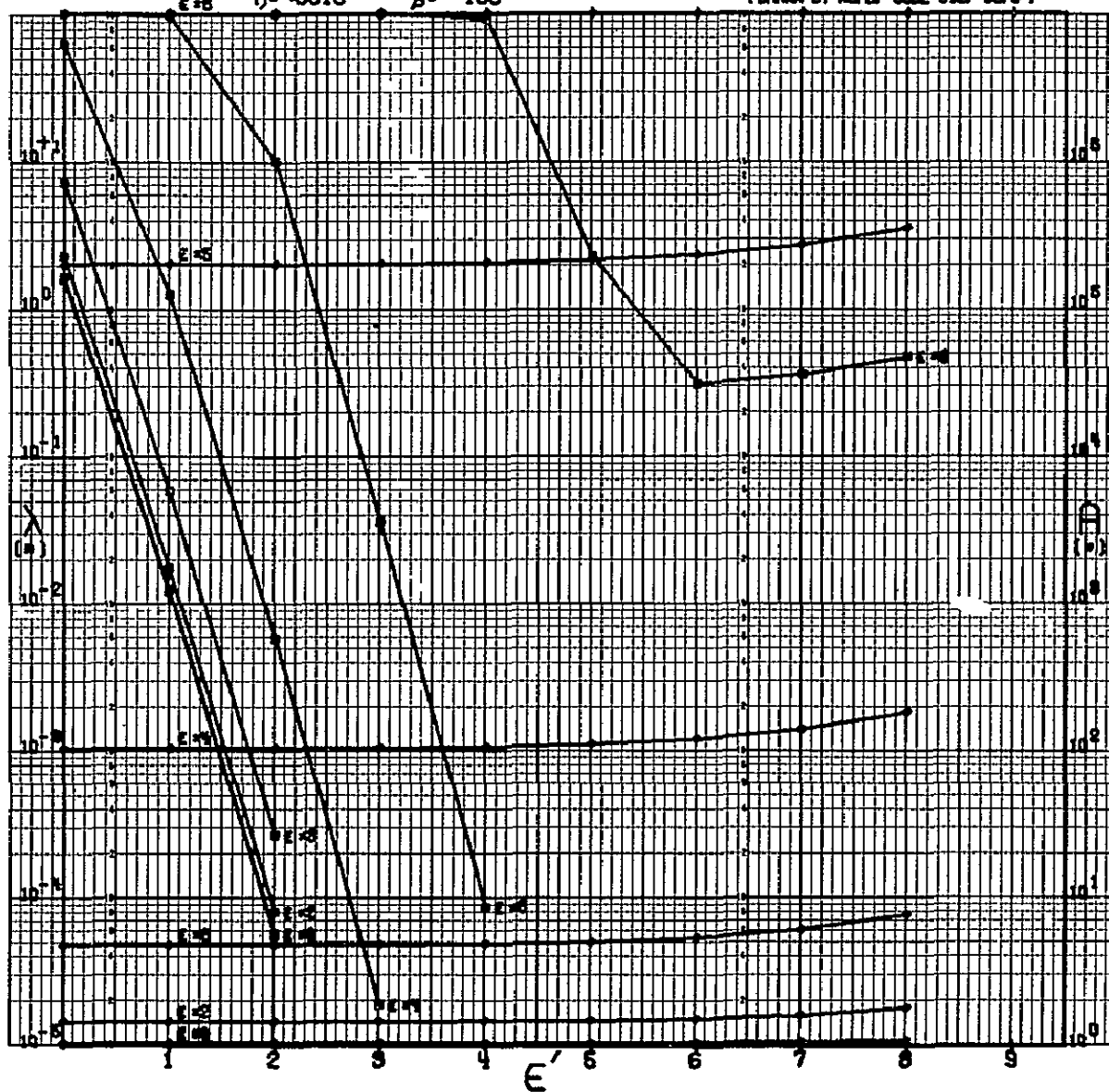
CODE 1110101110010000

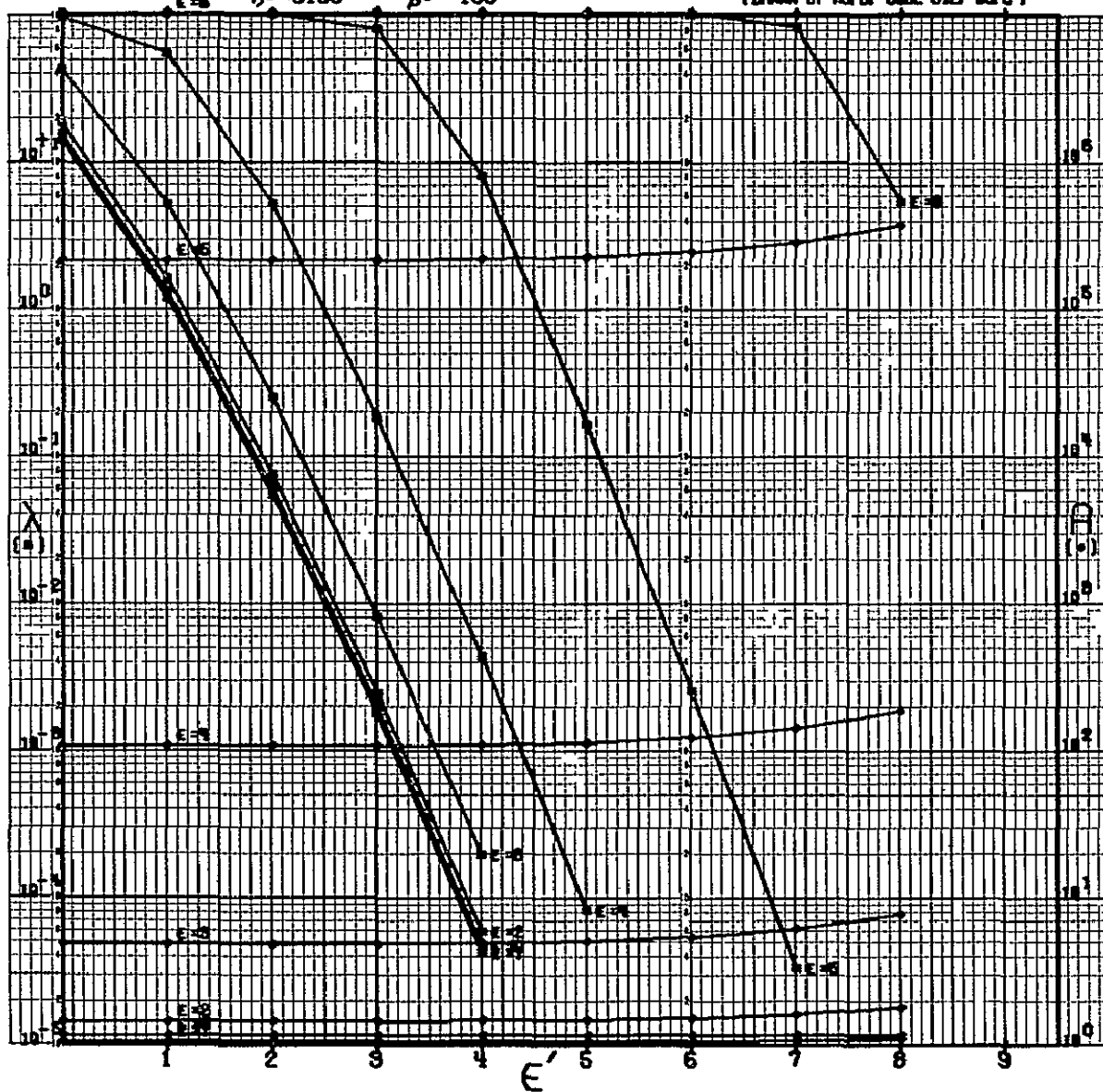
GEFC STANDARD

$\eta = 0.010$

$\beta = 100$

(DRAWN BY ADPBL CODE 582, GEFC)





N=16

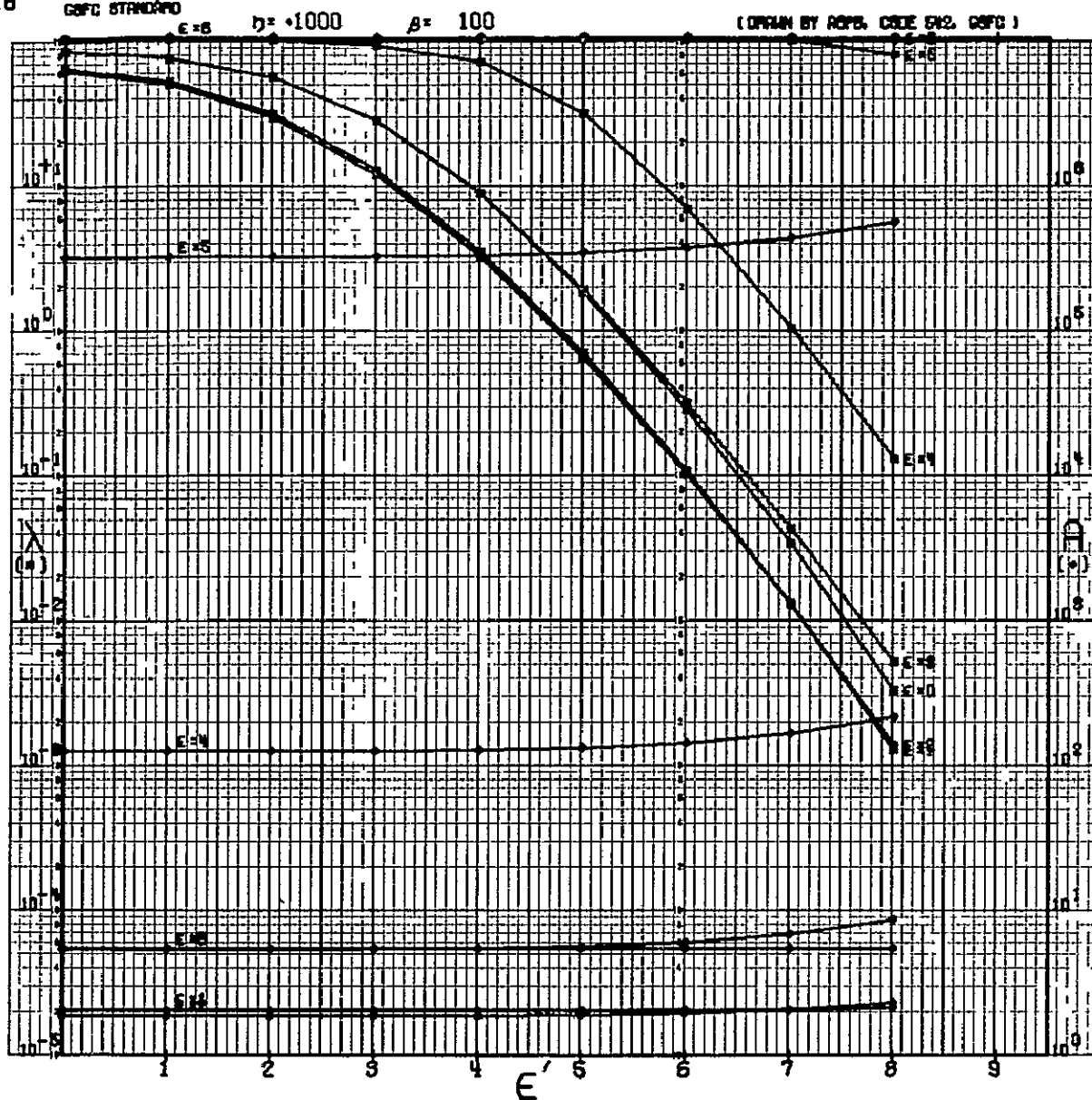
CODE 1110101110010000

GSFC STANDARD

$\eta = +1000$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



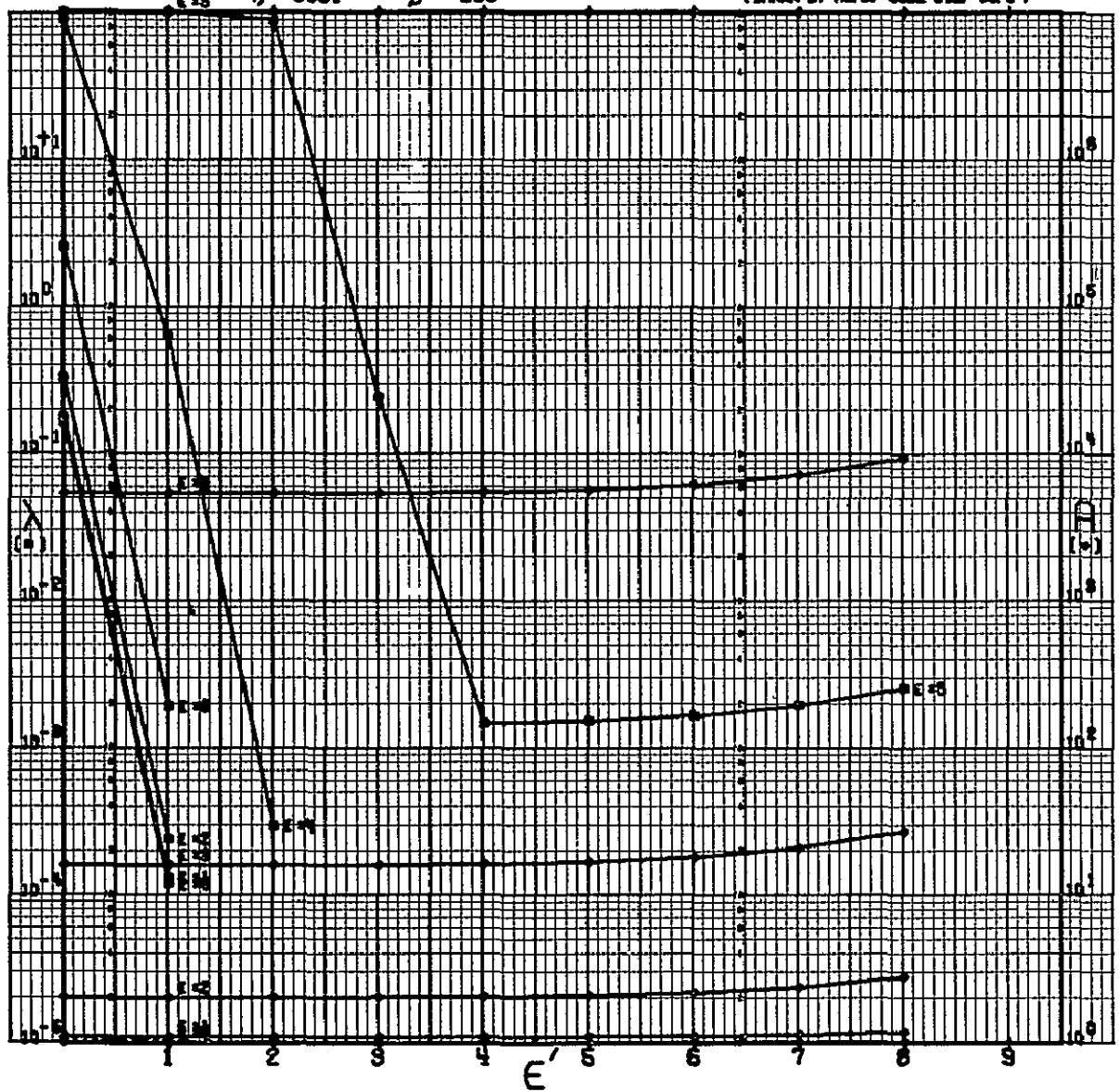
N = 16

CODE 1110101110010000
GFC STANDARD

$\eta = -0001$

$\beta = 200$

(DRAWN BY NOPS, CODE 502, GFC)



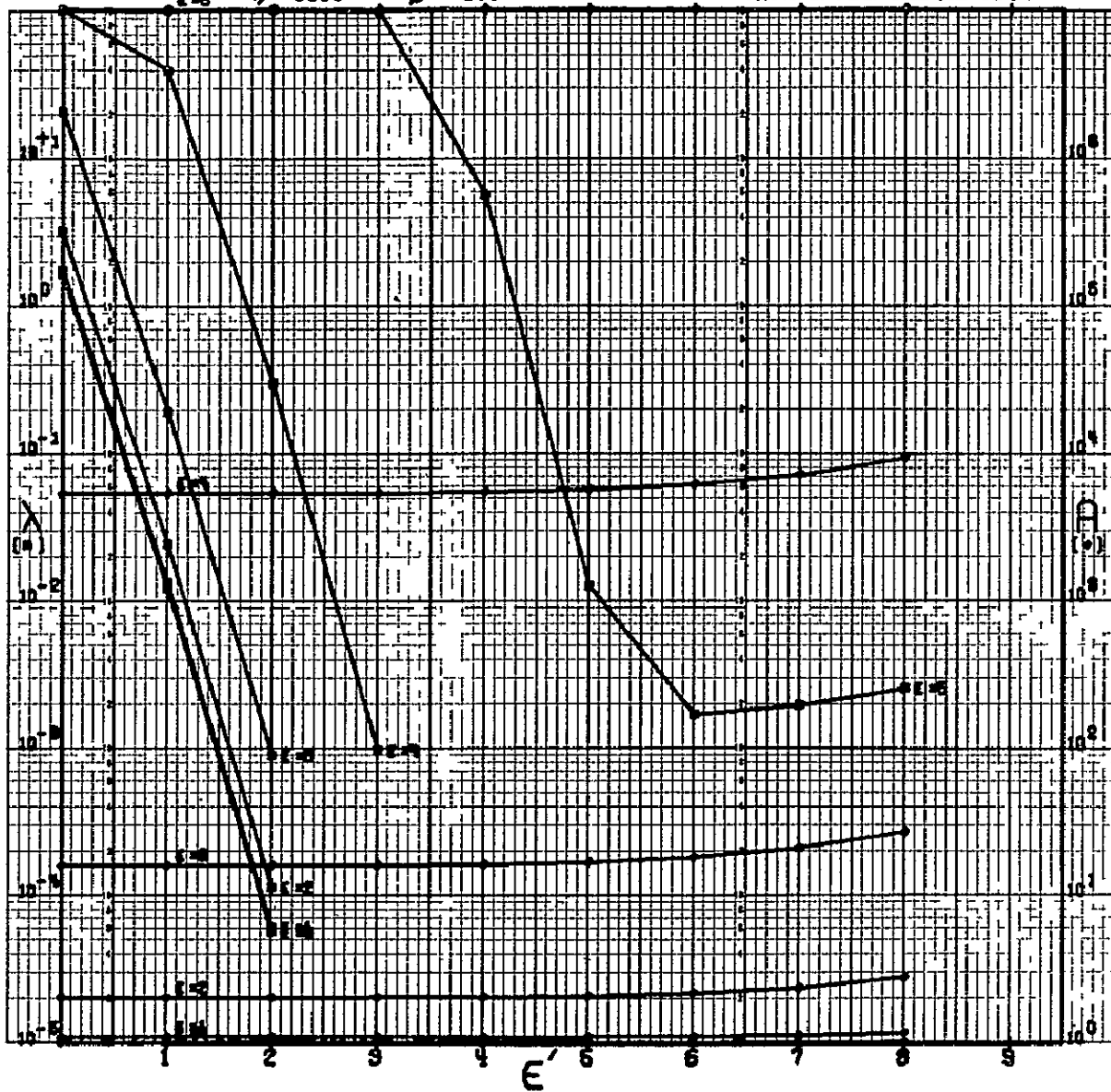
N = 16

CODE 1110101110010000
GFC STANDARD

$\eta = +0010$

$\beta = 200$

(OFTEN BY REFS. CODE 592, GFC)



N = 16

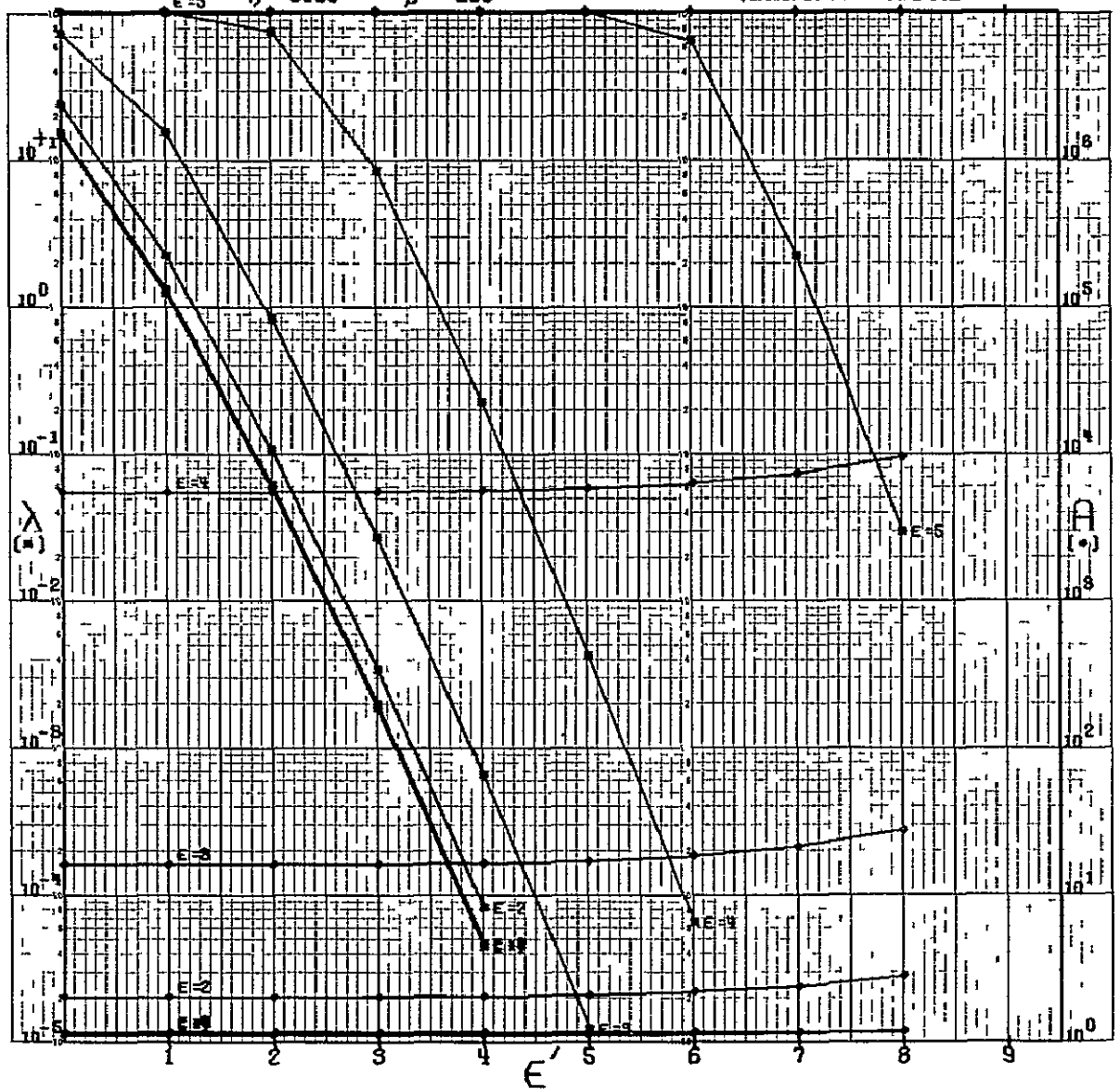
CODE 1110101110010000

GSFC STANDARD

$\epsilon = 5$ $\eta = -0.100$

$\beta = 200$

(DRAWN BY ROFBL CODE 592, GSFC)



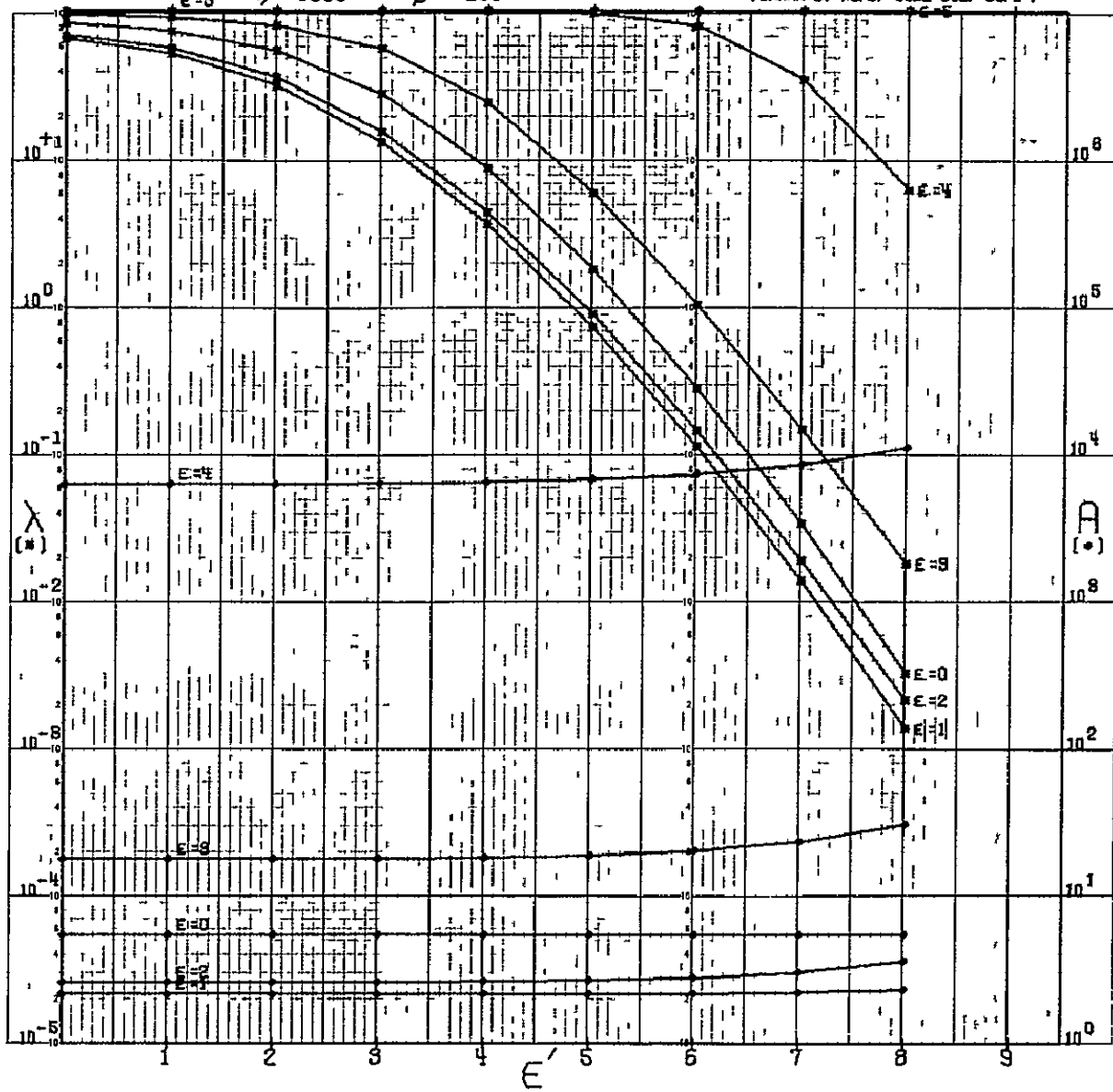
N=16

CODE 1110101110010000
GSFC STANDARD

$\eta = +1000$

$\beta = 200$

(DRAWN BY ROPB, CODE-542, GSFC)



N=16

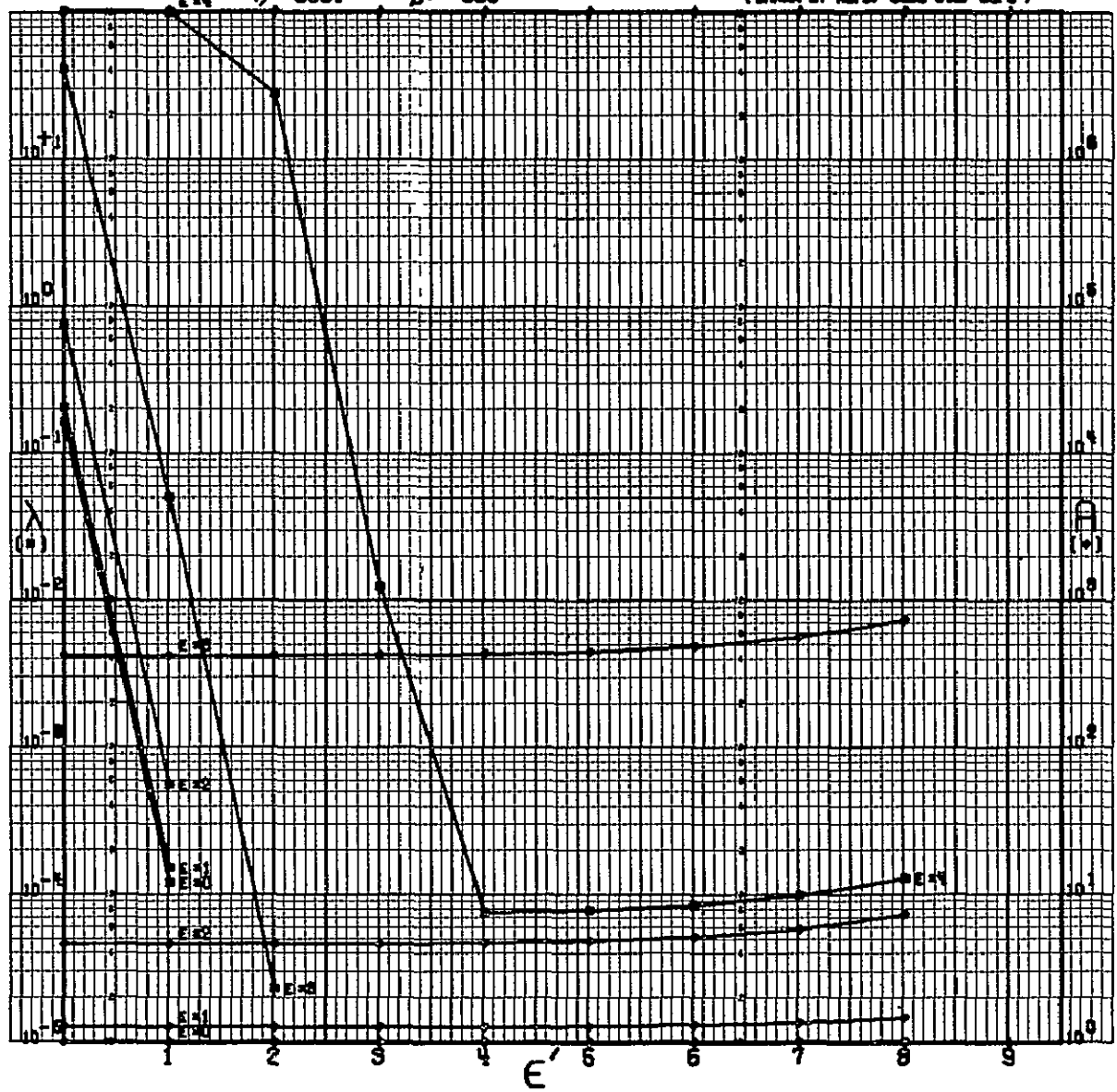
CODE 1110101110010000

GEFC STANDARD

$\eta = 0.001$

$\beta = 500$

(DRAWN BY RO-VL CODE 992, GEFC)



N° 16

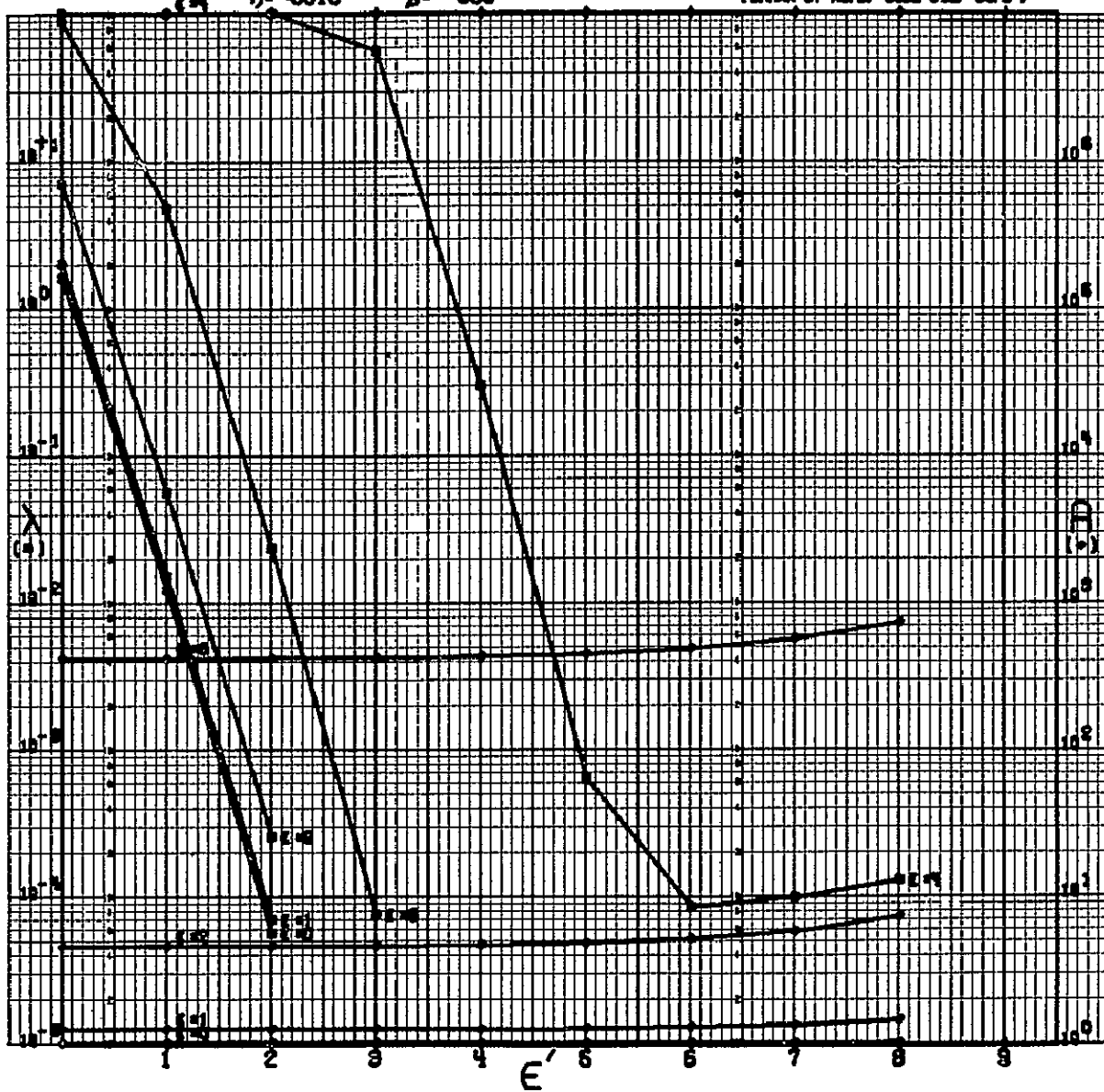
CODE 1110101110010000

INFO STANDARD

$\eta = 0010$

$\beta = 500$

(OPLAN BY ADP. CODE 592, INFO)



N=16

CODE 111010111010000

GEFC STANDARD

$\eta = -0100$

$A = 500$

(DRAWN BY 2076, CODE 012, 2076)



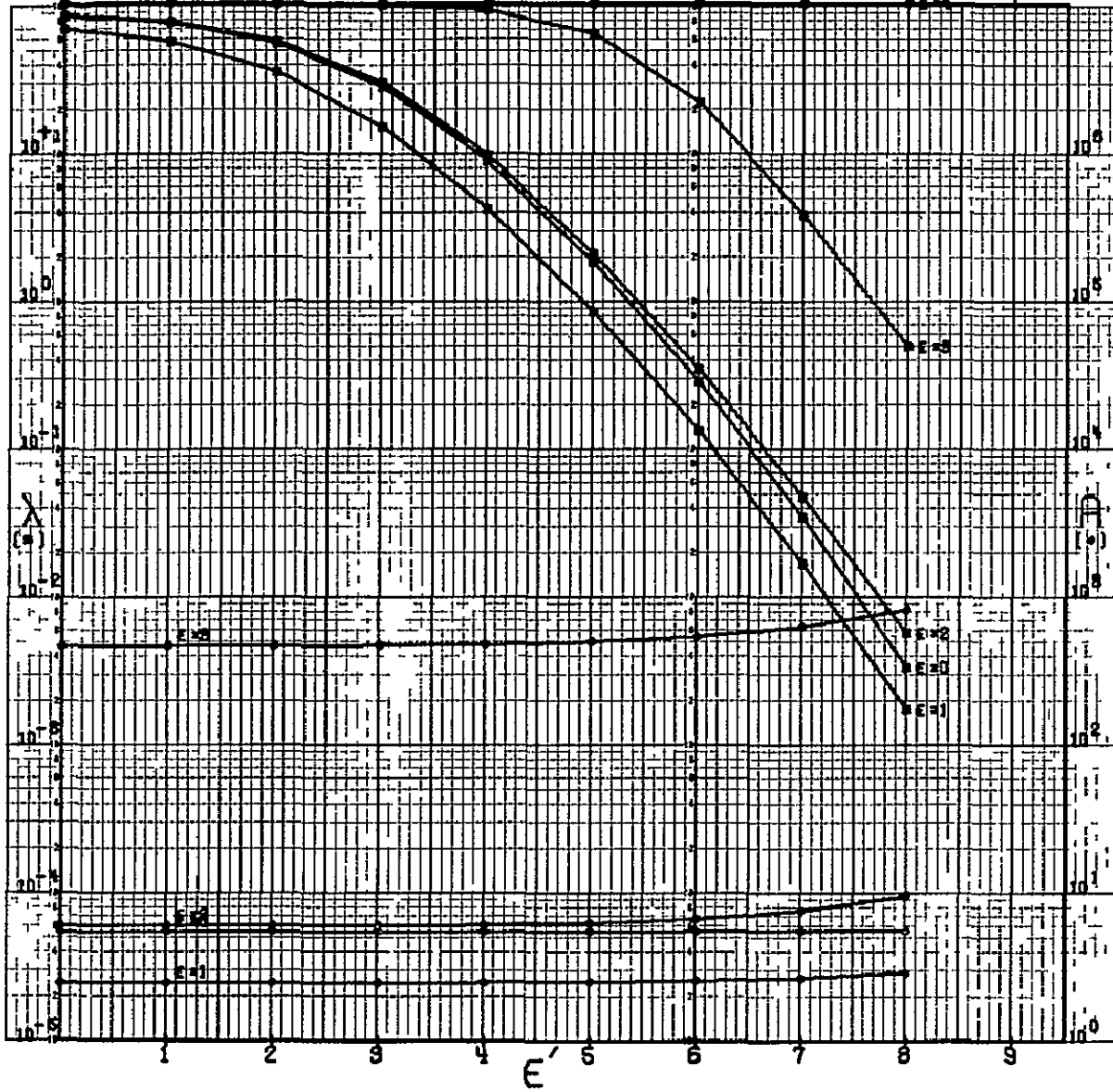
N=16

CODE 1110101110010000
GSPC STANDARD

$\beta = 1000$

$\beta = 500$

(DRAWN BY ROPS CODE 512 GSPC)



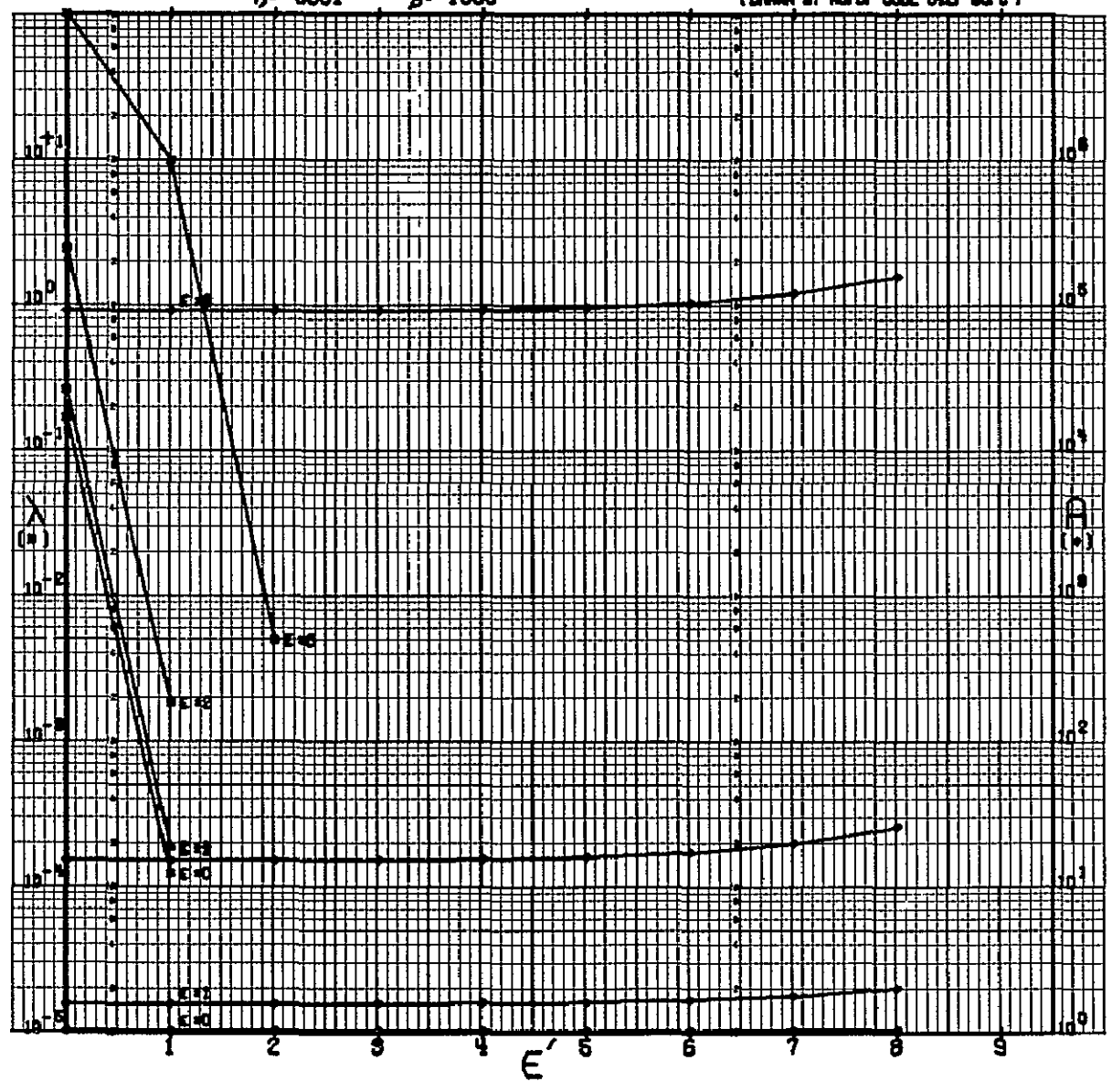
N = 16

CODE 111010110010000
GFC STANDARD

$\eta = -0.001$

$\beta = 1000$

(DRAWN BY ROPS CODE 512 GFC)



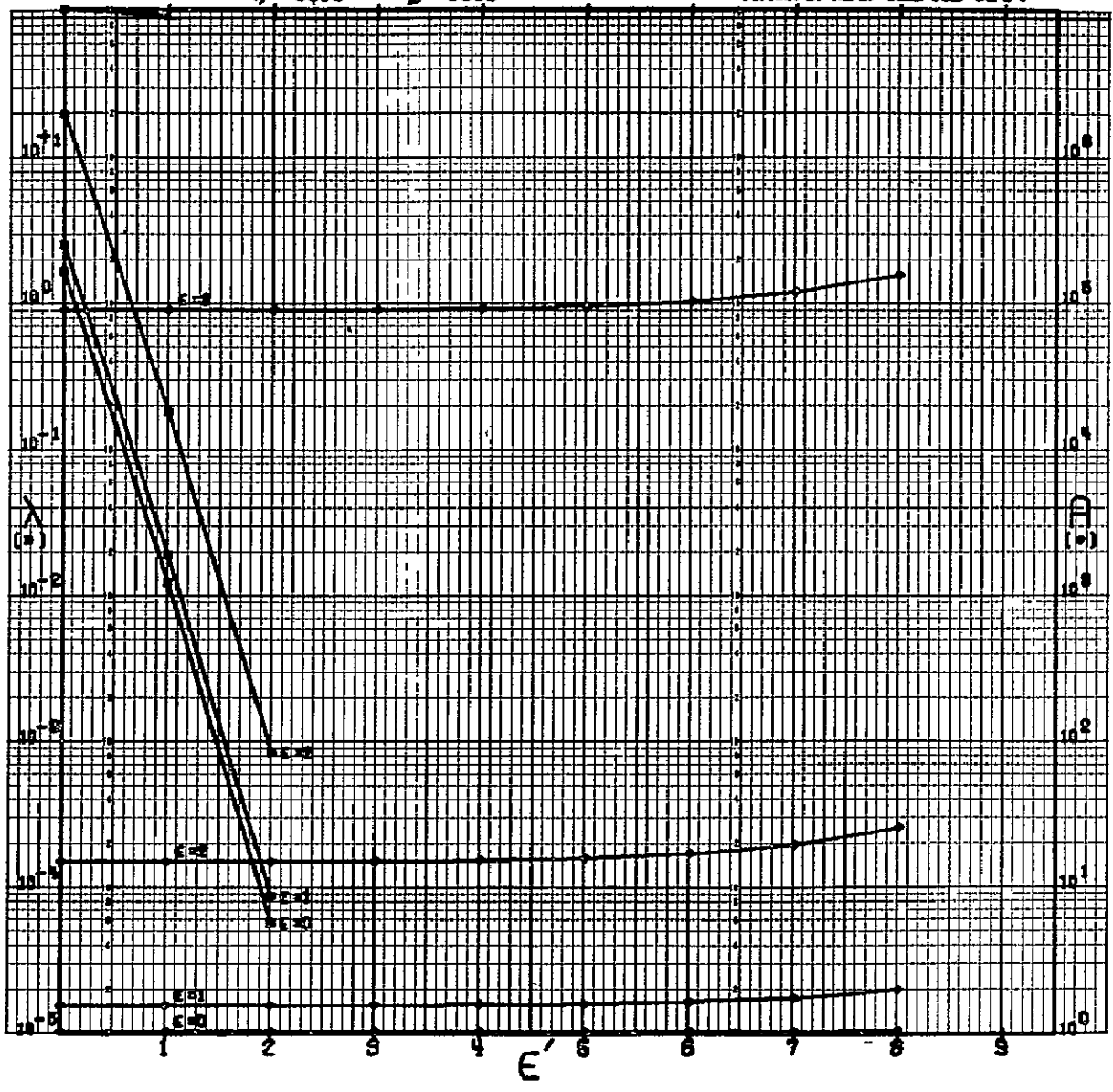
N=16

CSE 1110101110010000
GFC STANDARD

$\eta = -0.010$

$\beta = 1000$

(GRAPH BY NAME, DATE 512, GFC)



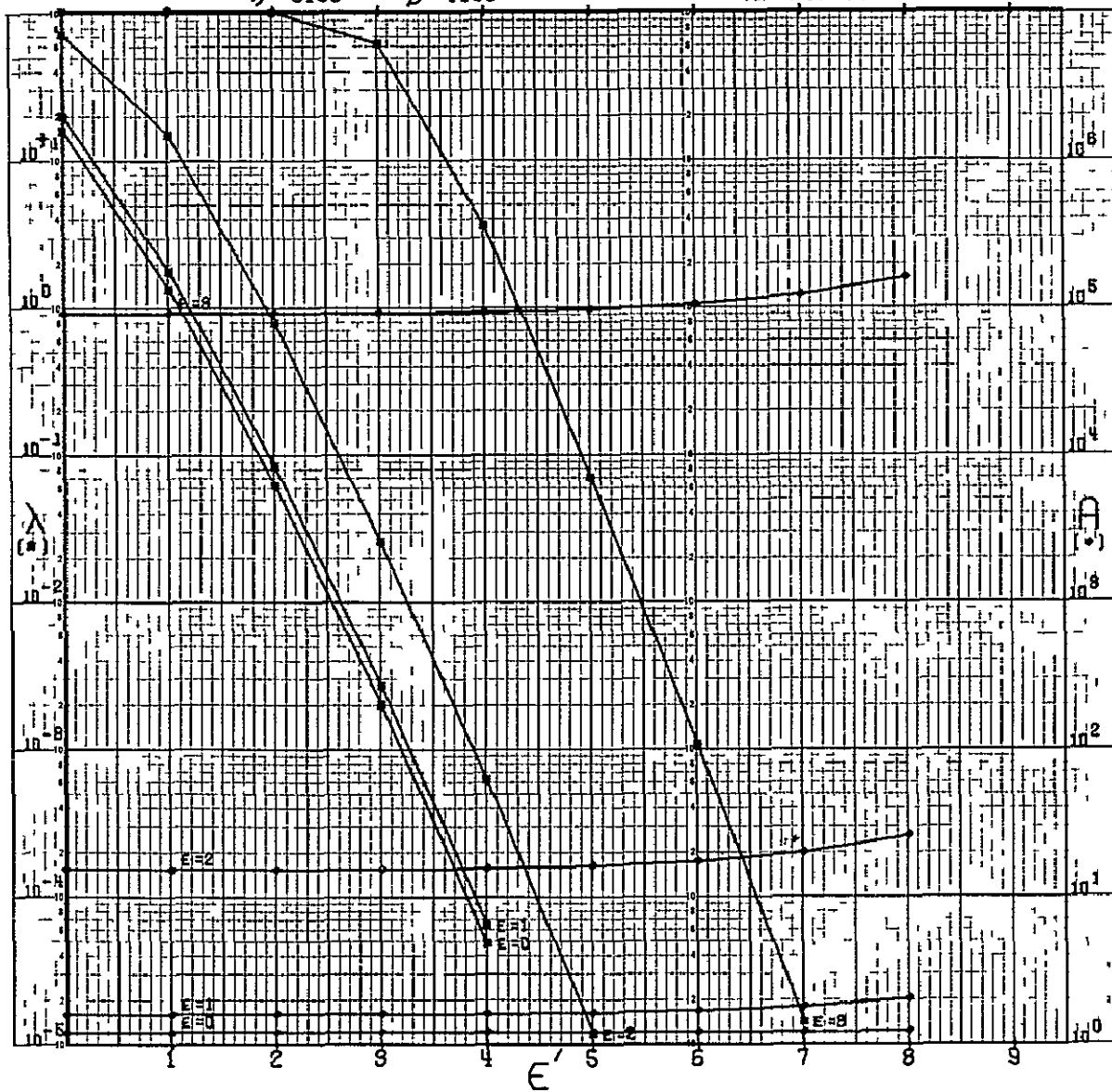
N = 16

CODE 1110101110010000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 1000$

(DRAWN BY AOPB, CODE 542, GSFC)



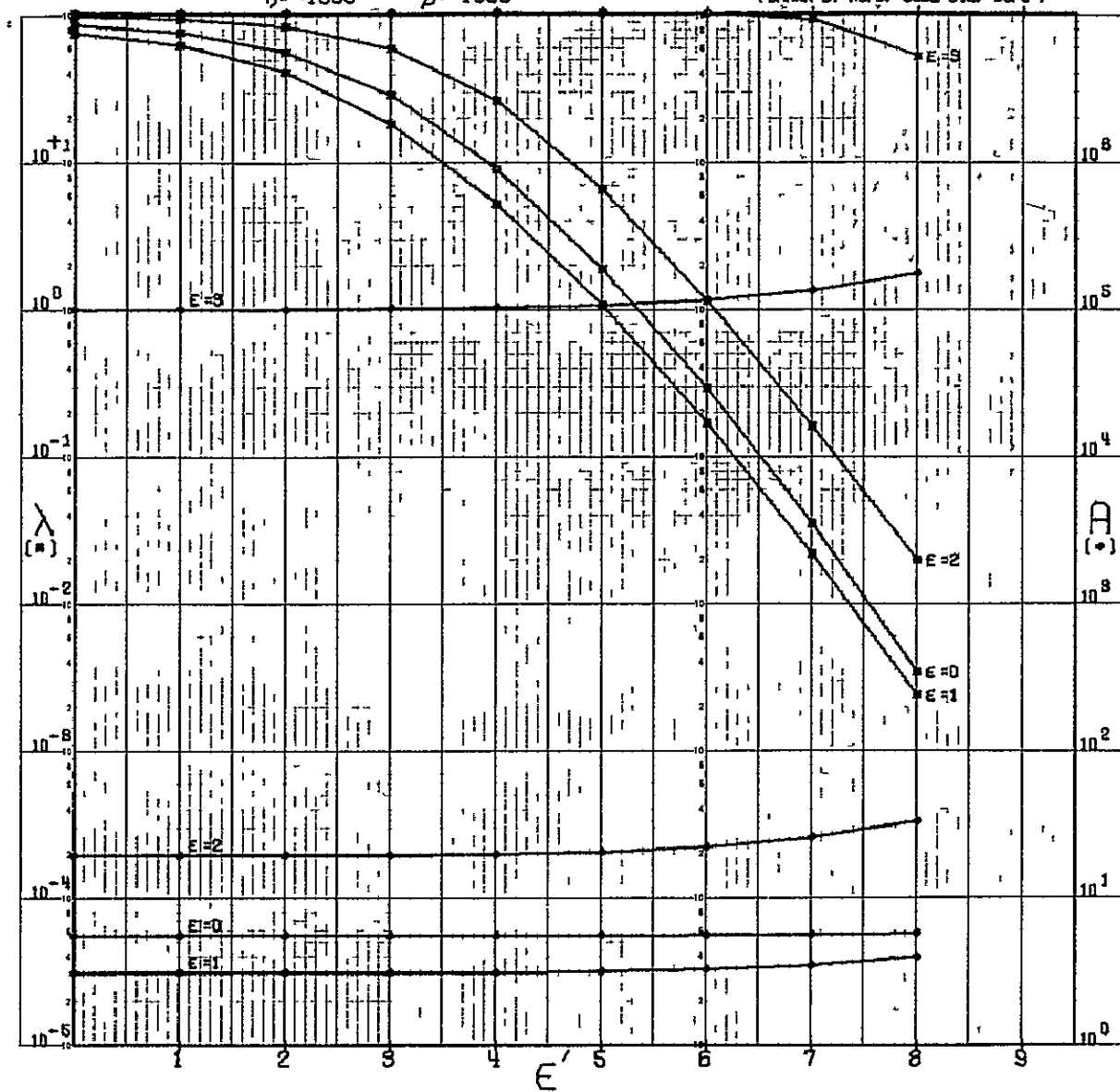
N=16

CODE 1110101110010000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



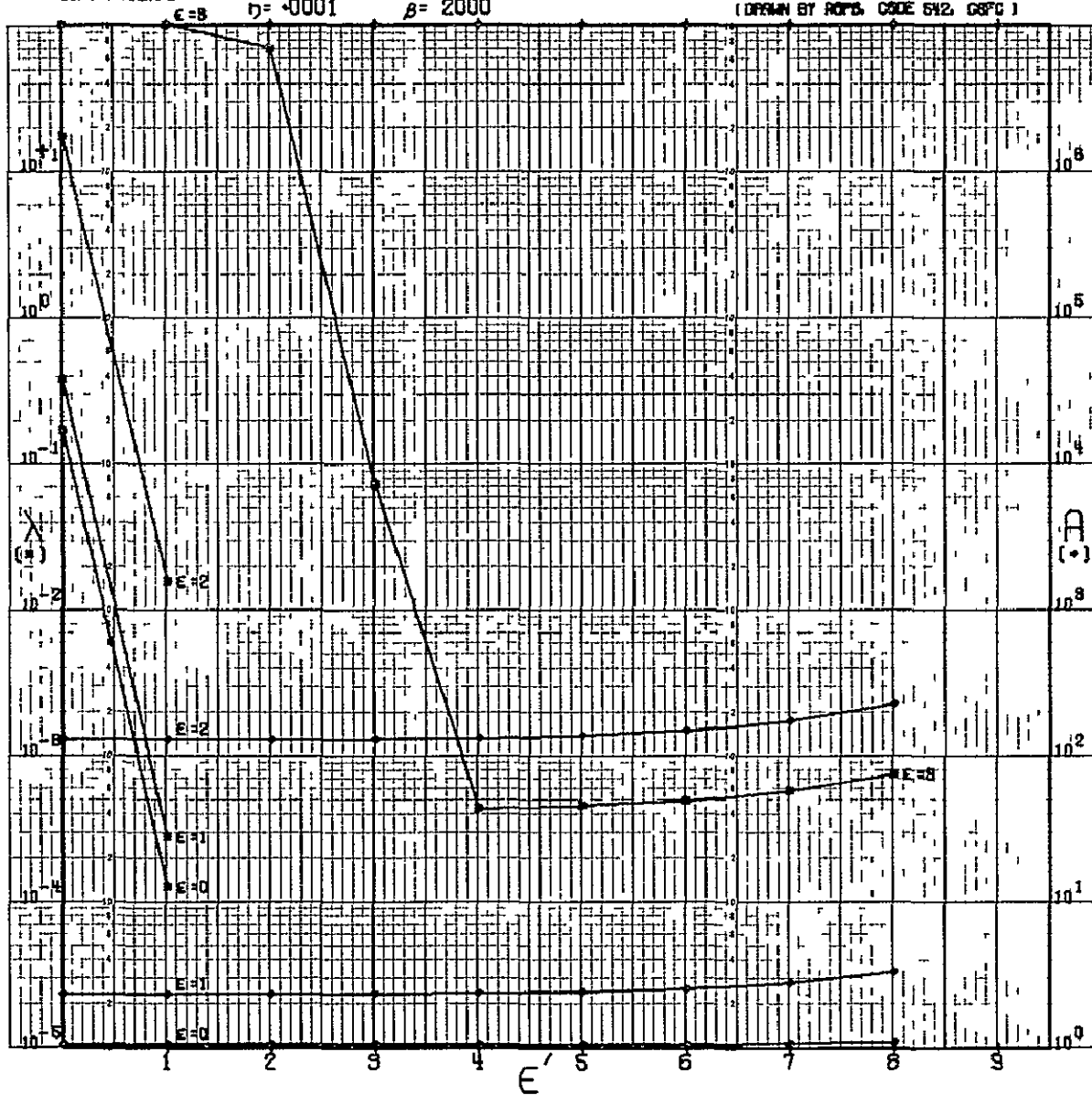
N=16

CODE 1110101110010000
GSFC STANDARD

$\eta = -0001$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



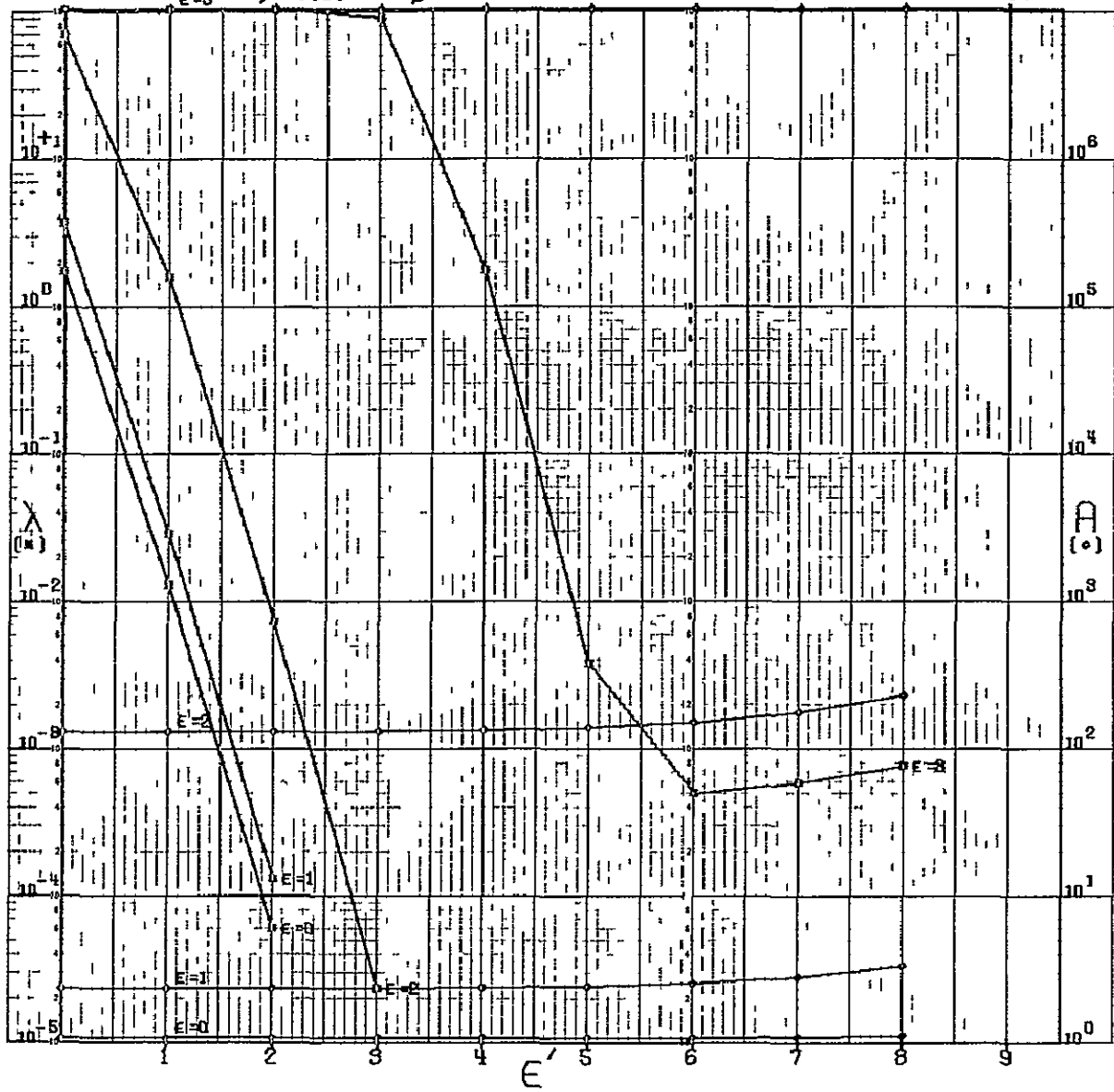
N=16

CODE 1110101110010000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY AOPB, CODE 542, GSFC)



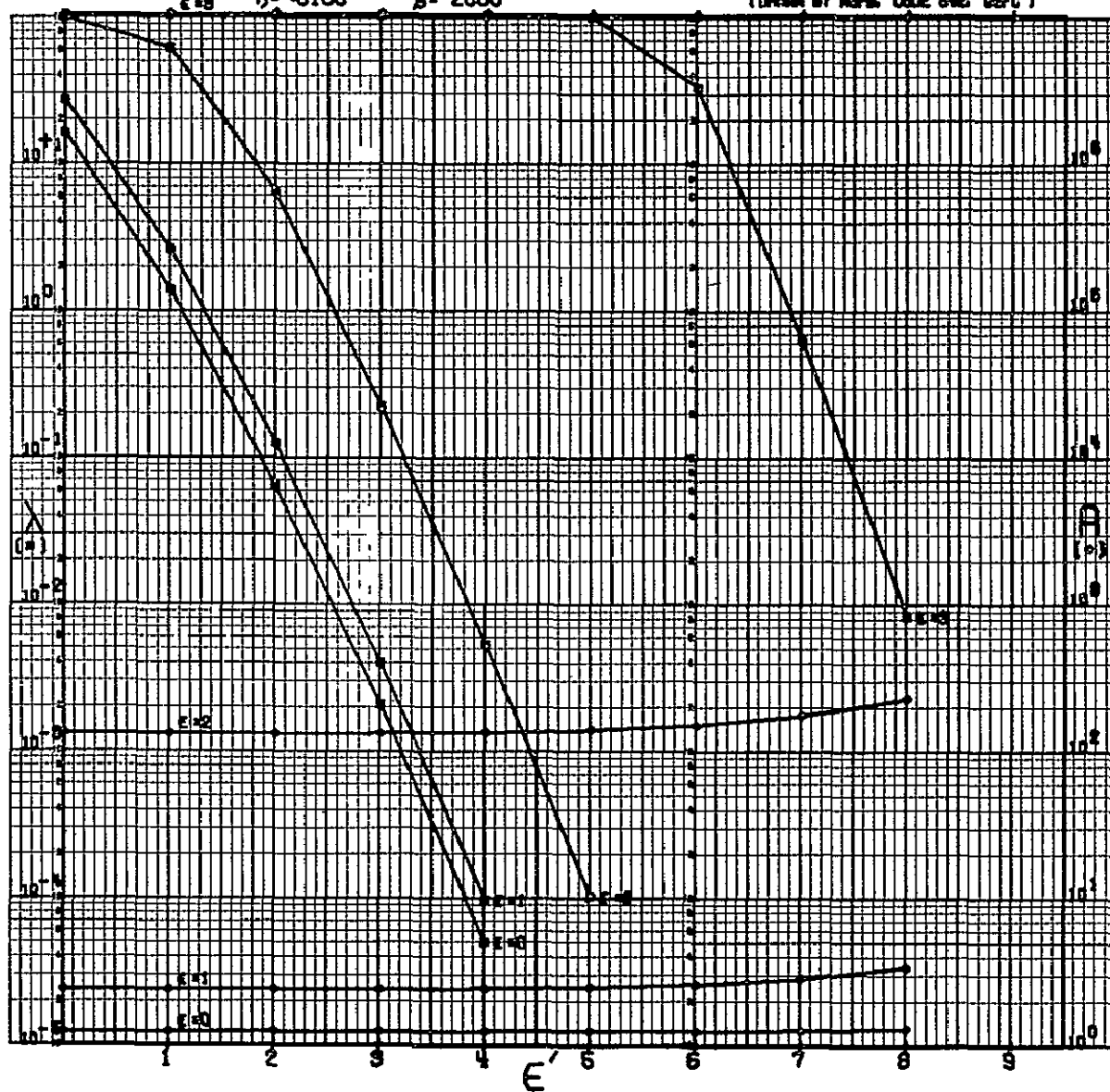
N*16

CODE 1110101110010000
GFC STANDARD

$\epsilon = 8$ $\eta = -0100$

$\beta = 2000$

(DRAWN BY RSPB, CODE ENG, GFC)



A-277

N = 16

CODE 1110101110010000

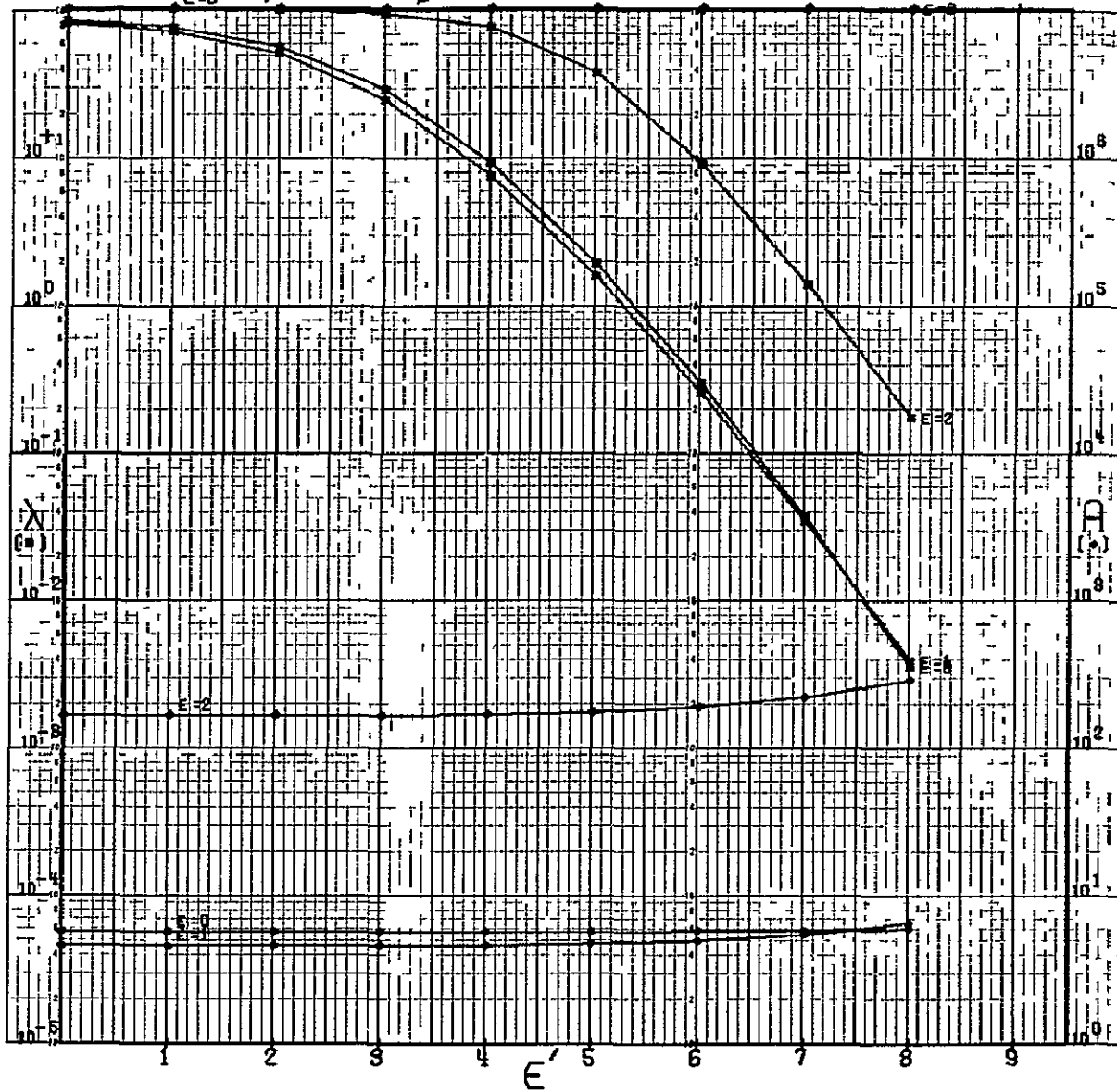
GSFC STANDARD

$\epsilon = 8$

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPB, CODE 592, GSFC)



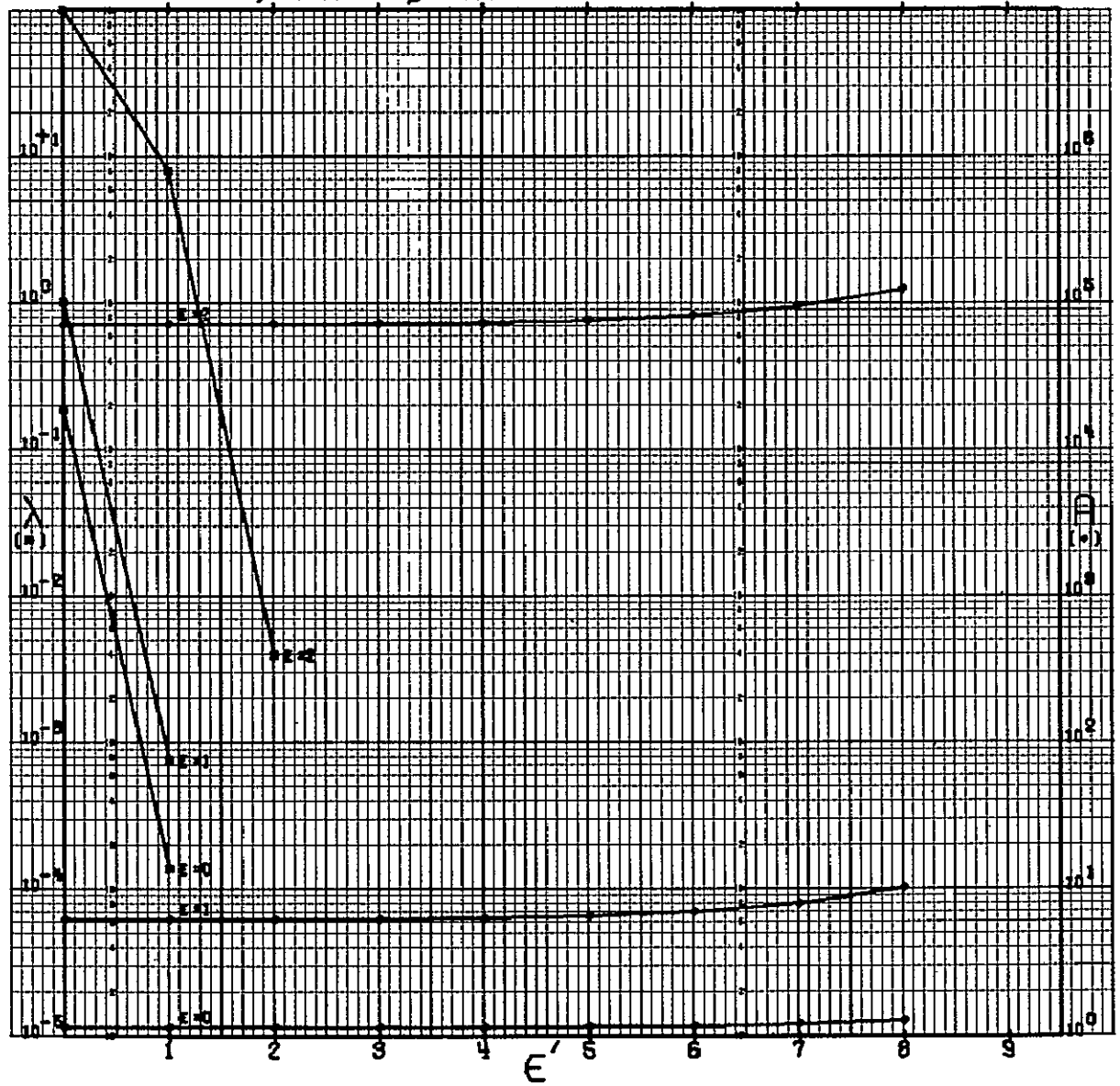
N = 16

1110101110010000
GDFC STANDARD

$\eta = -0.001$

$\beta = 5000$

(OBTAIN BY ROPS CODE 582, GDFC)



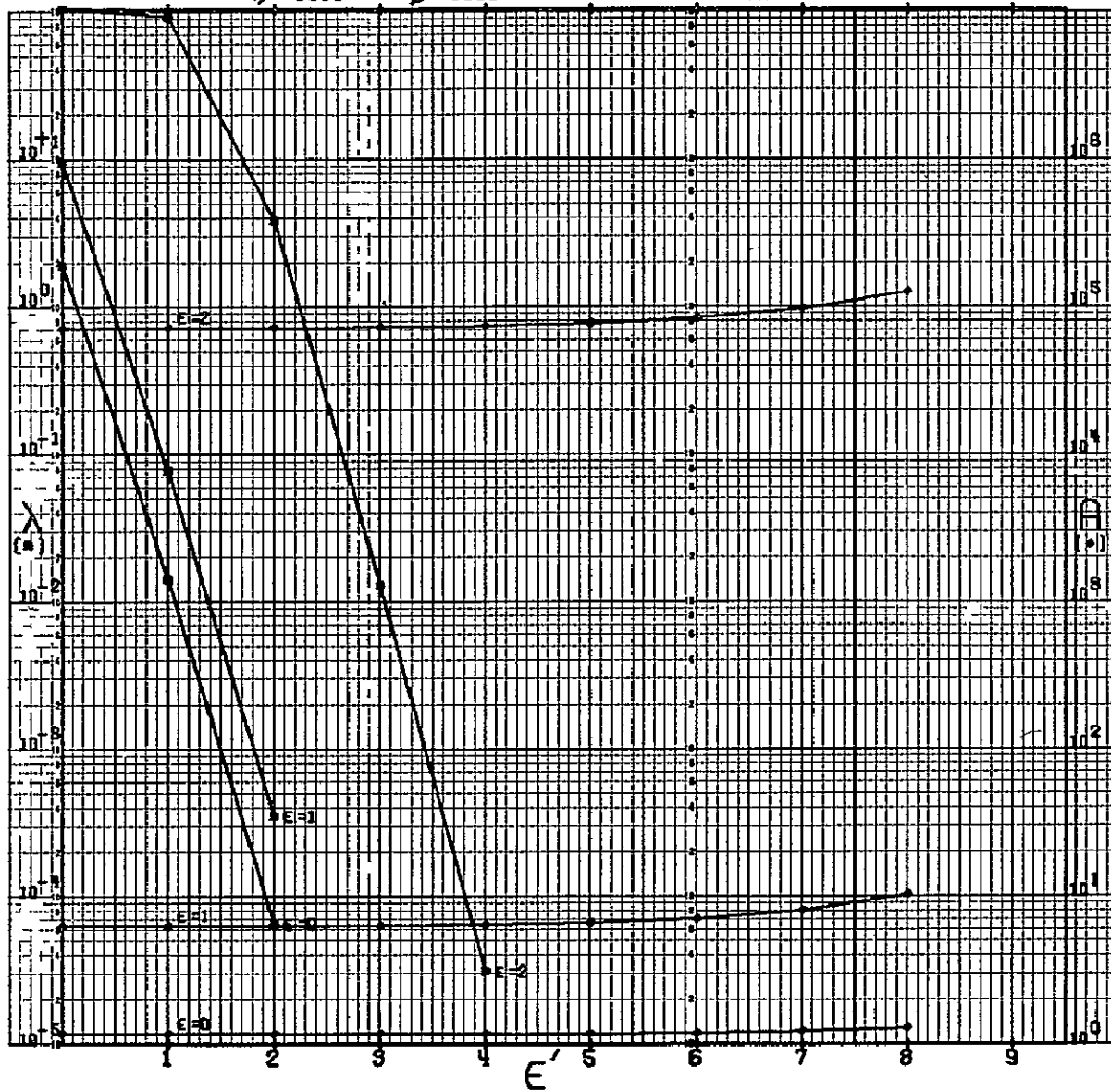
N*16

CODE 1110101110010000
GSFC STANDARD

$\eta = -0010$

$\beta = 5000$

(DRAWN BY AOPB, CODE 612, GSFC)



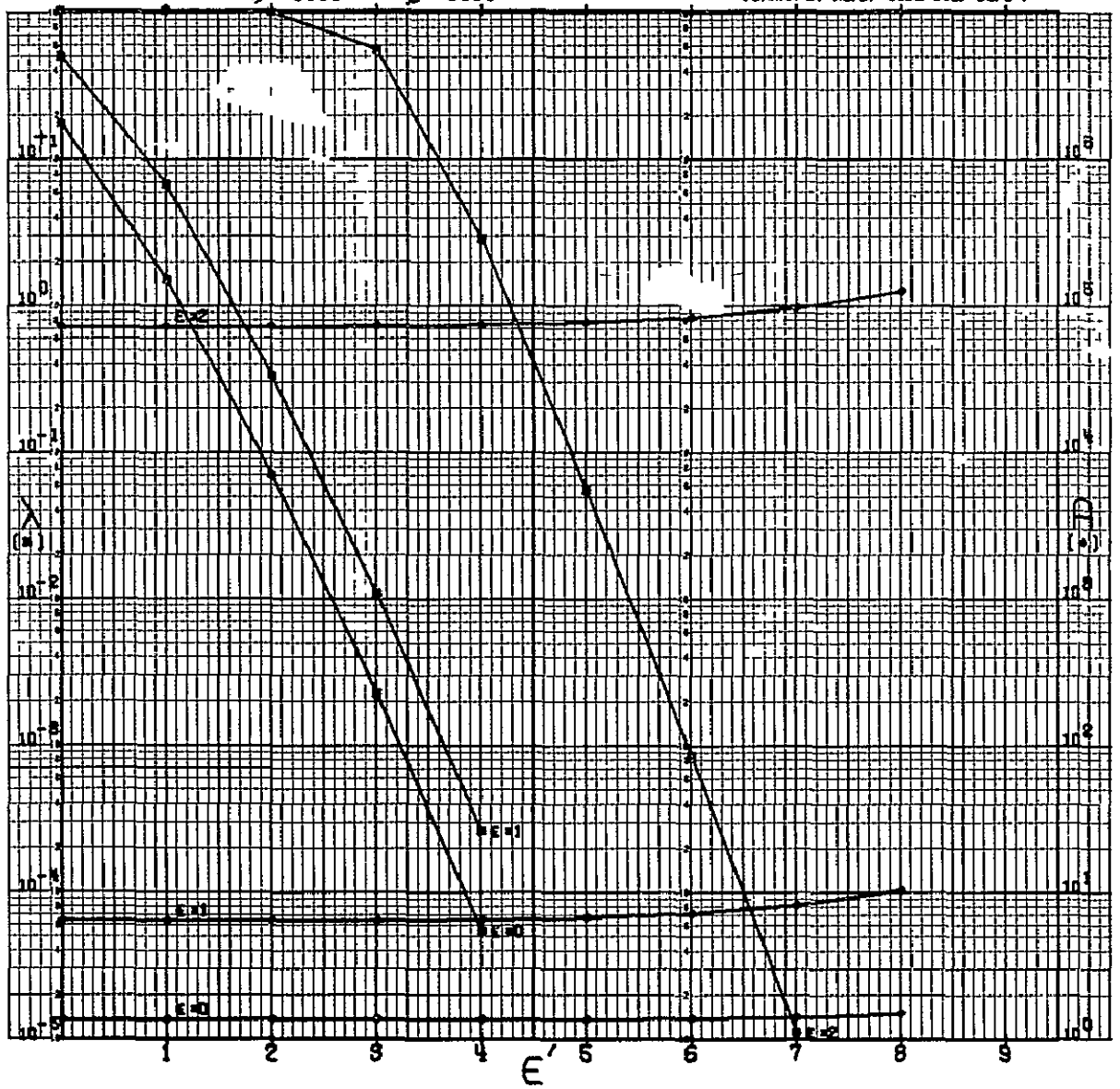
N=16

CODE 111010110010000
GDFC STANDARD

$\gamma = 0.100$

$\beta = 5000$

(DRAWN BY AGPB, CODE 642, GDFC)



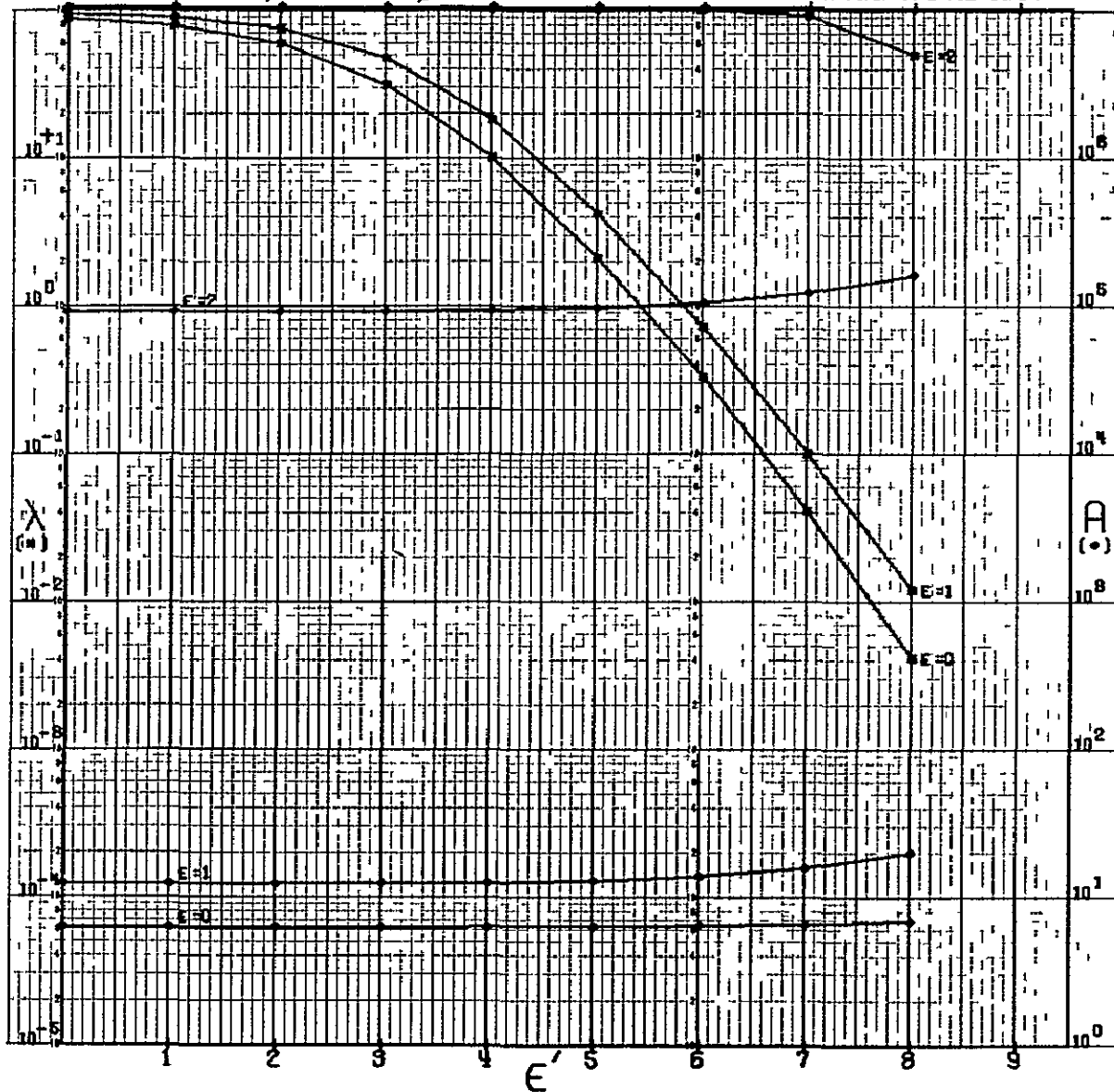
N=16

CODE 1110101110010000
G8FC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROPB. CODE 512, G8FC)



N=16

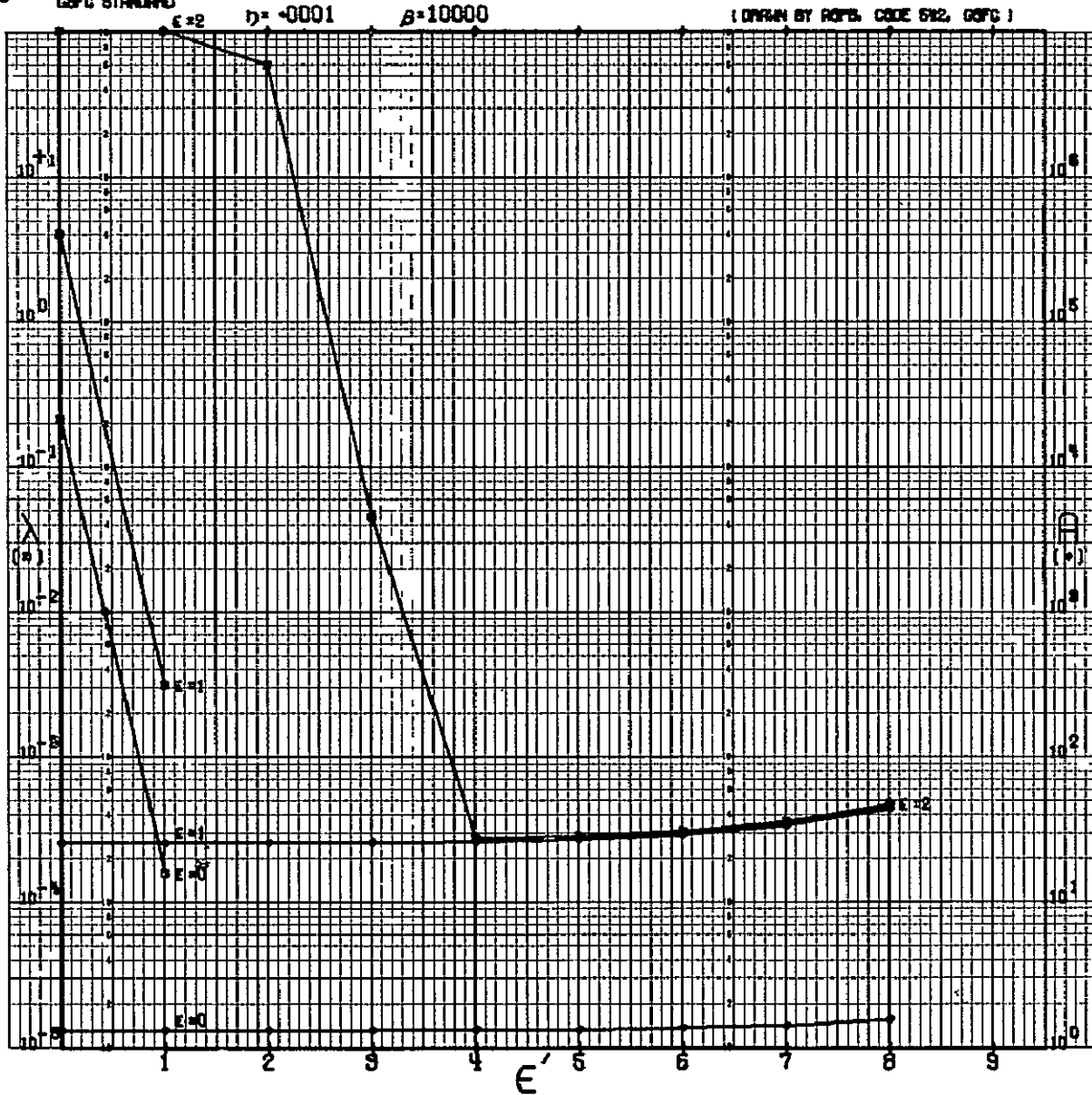
CODE 1110101110010000

GSFC STANDARD

$\gamma = -0001$

$\beta = 10000$

(DRAWN BY ROPS CODE 512, GSFC)



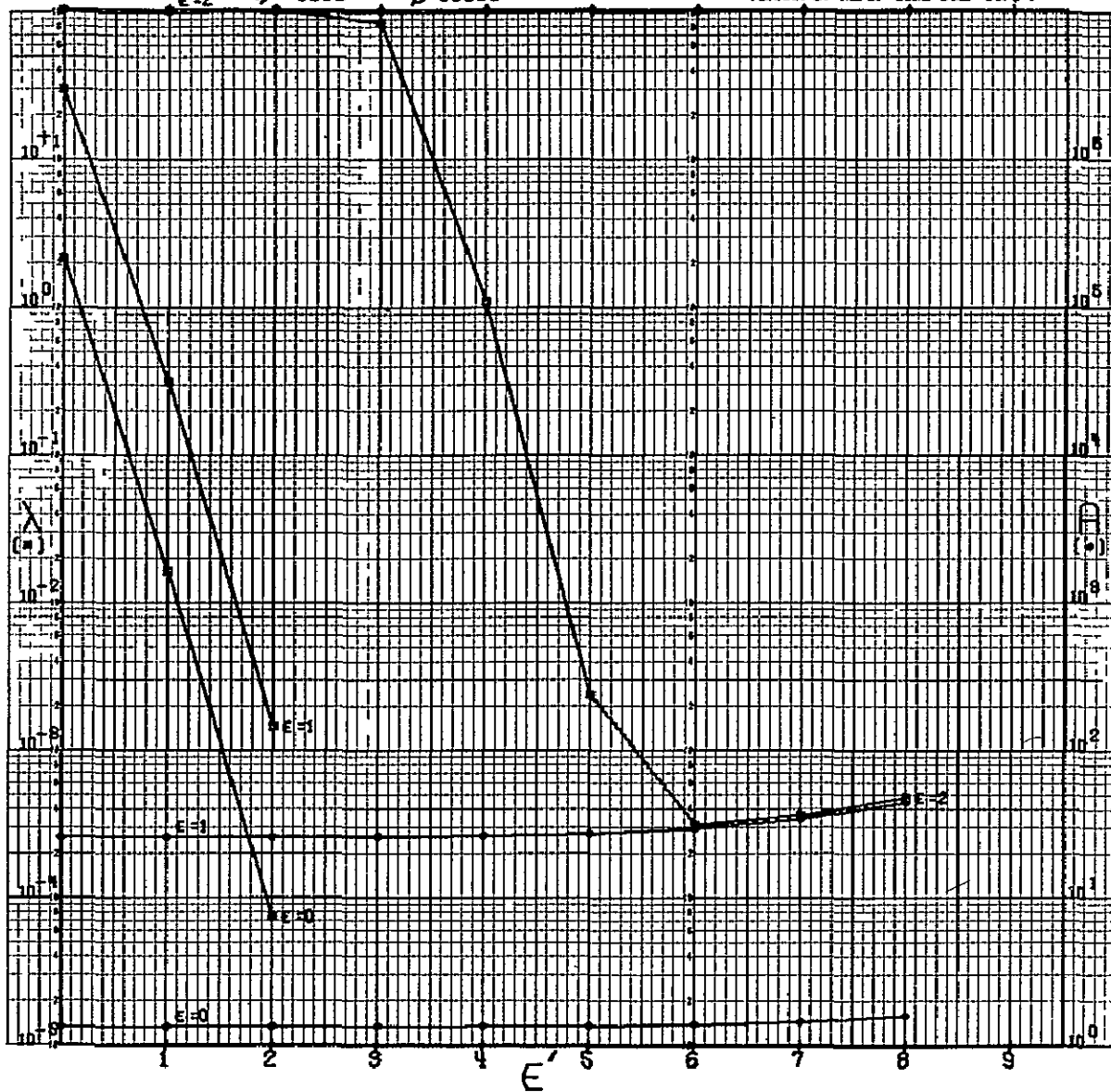
N = 16

CODE 1110101110010000
GFC STANDARD

$\epsilon = 2$ $\eta = 0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 512, GFC)



N=16

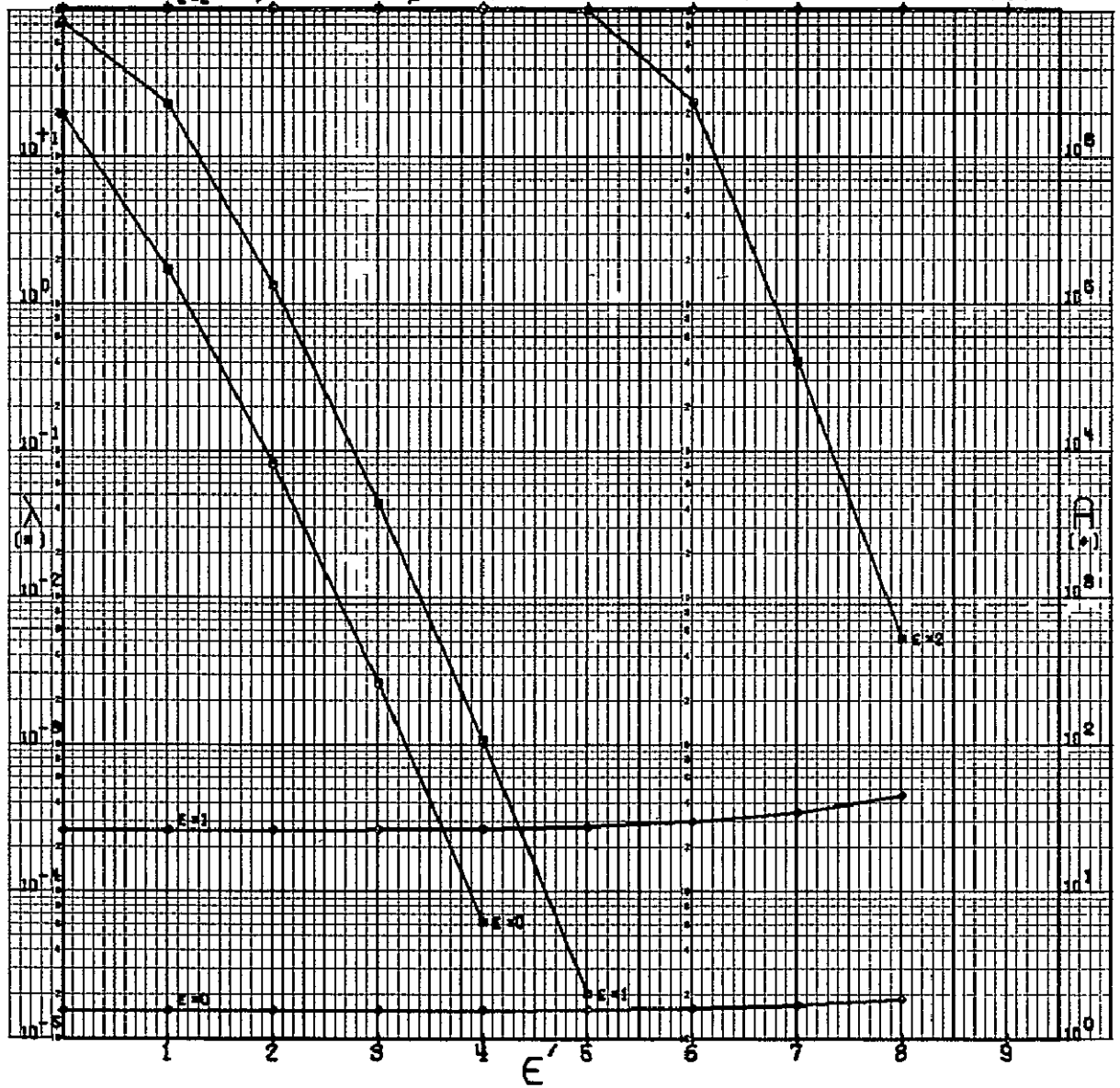
CODE 1110101110010000

GEFC STANDARD

$\epsilon = 2$ $\eta = -0.100$

$\beta = 10000$

(DRAWN BY ADPE, CODE 512, GEFC)



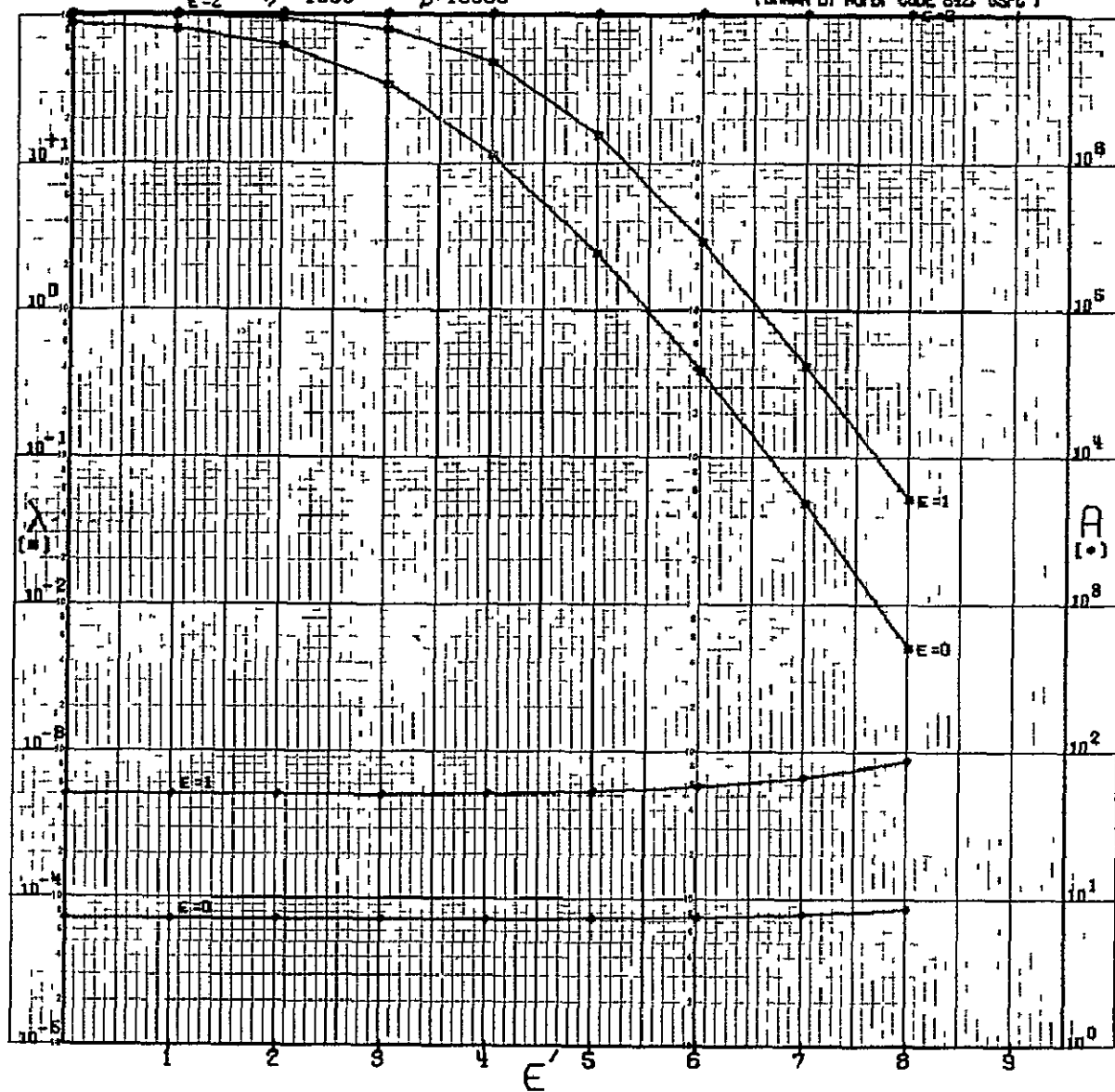
N=16

CODE 1110101110010000
GSFC STANDARD

$\epsilon=2$ $\eta=1000$

$\beta=10000$

(DRAWN BY ROPB, CODE 512, GSFC)



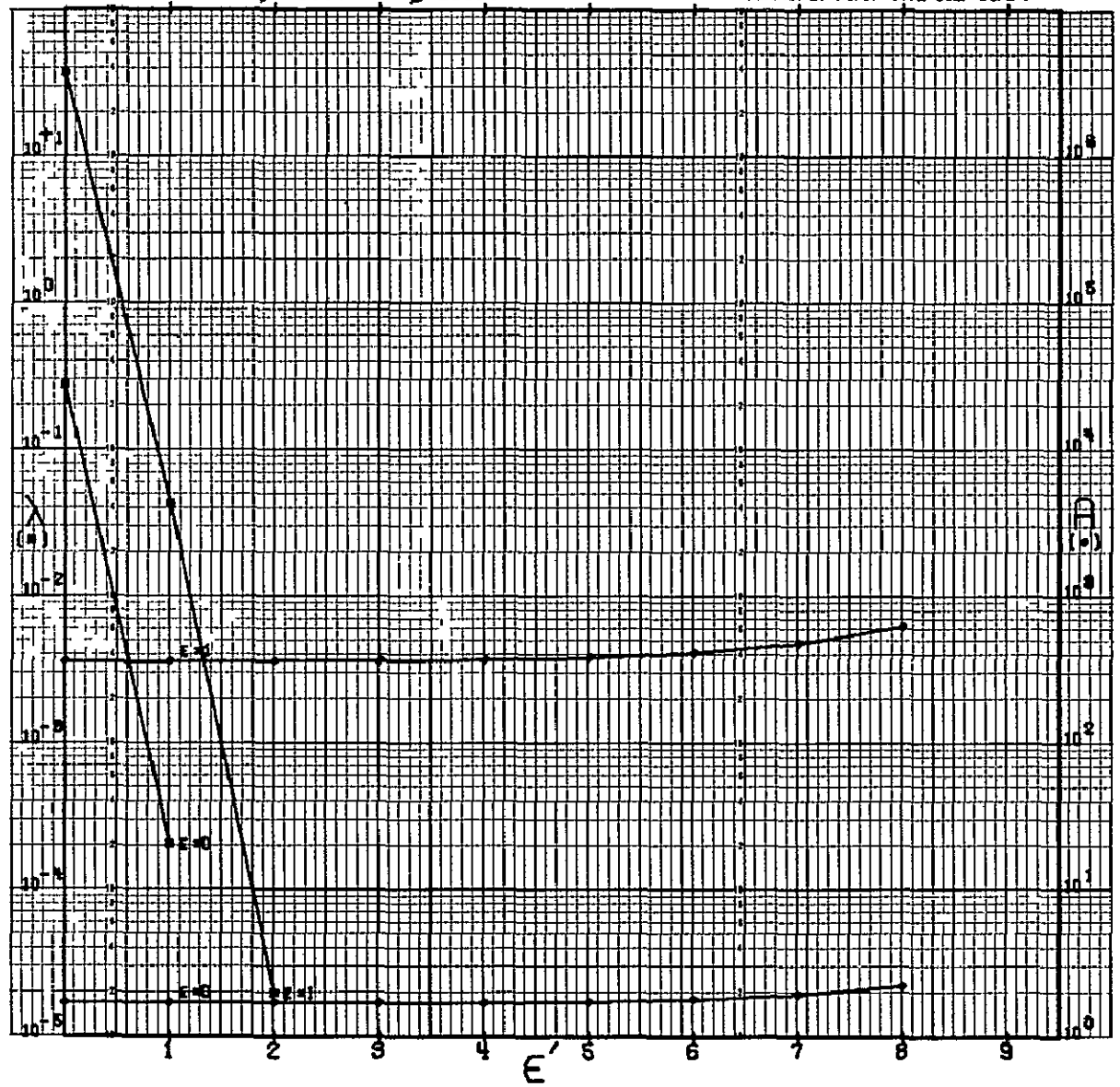
N=16

CODE 1110101110010000
GDFC STANDARD

$\eta = -0001$

$\beta = 20000$

(DRAWN BY ROFB, CODE 512, GDFC)



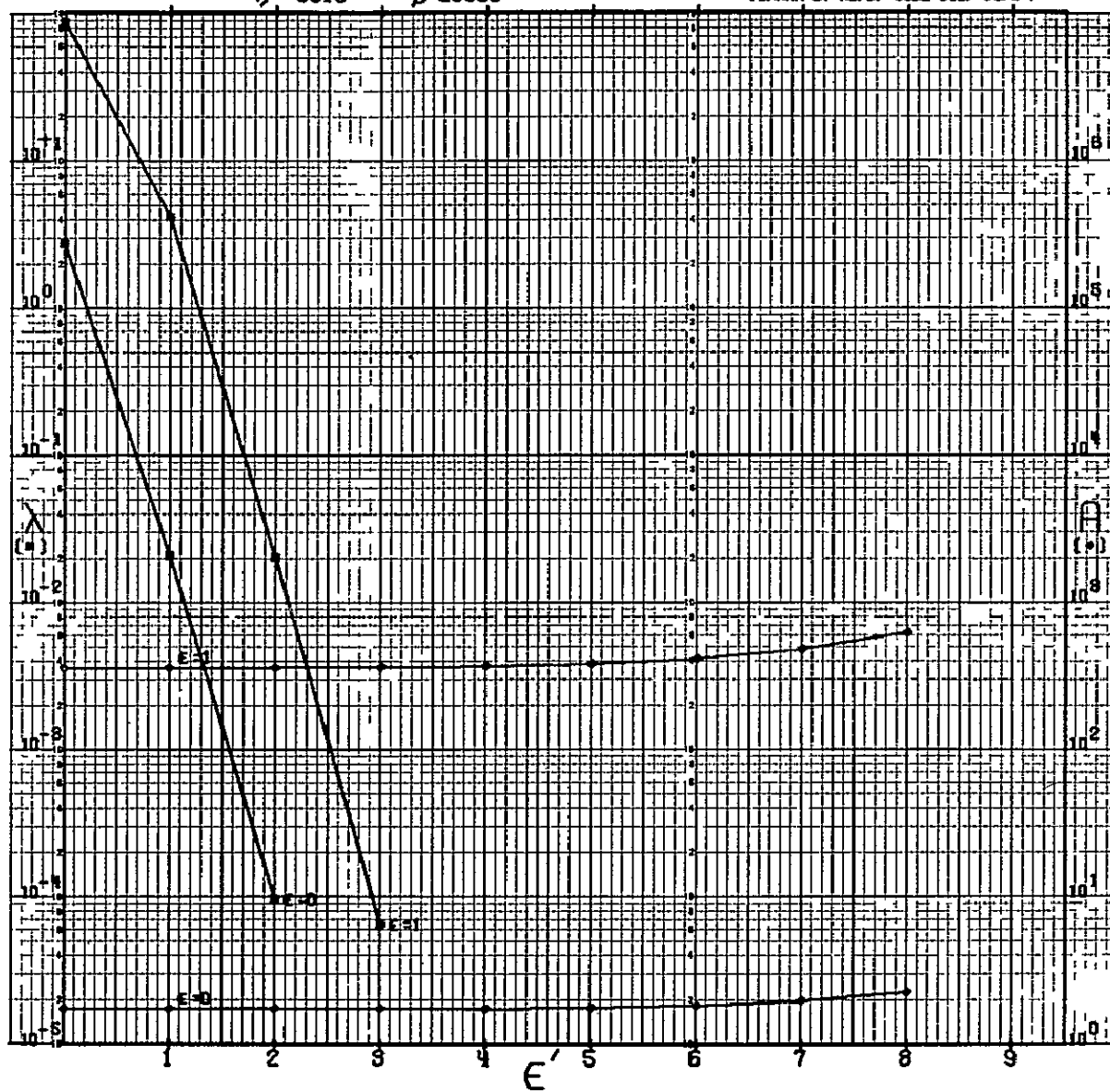
N=16

CODE 1110101110010000
GSFC STANDARD

$\eta = .0010$

$\beta = 20000$

(OBTAIN BY ACPB, CODE 592, GSFC)



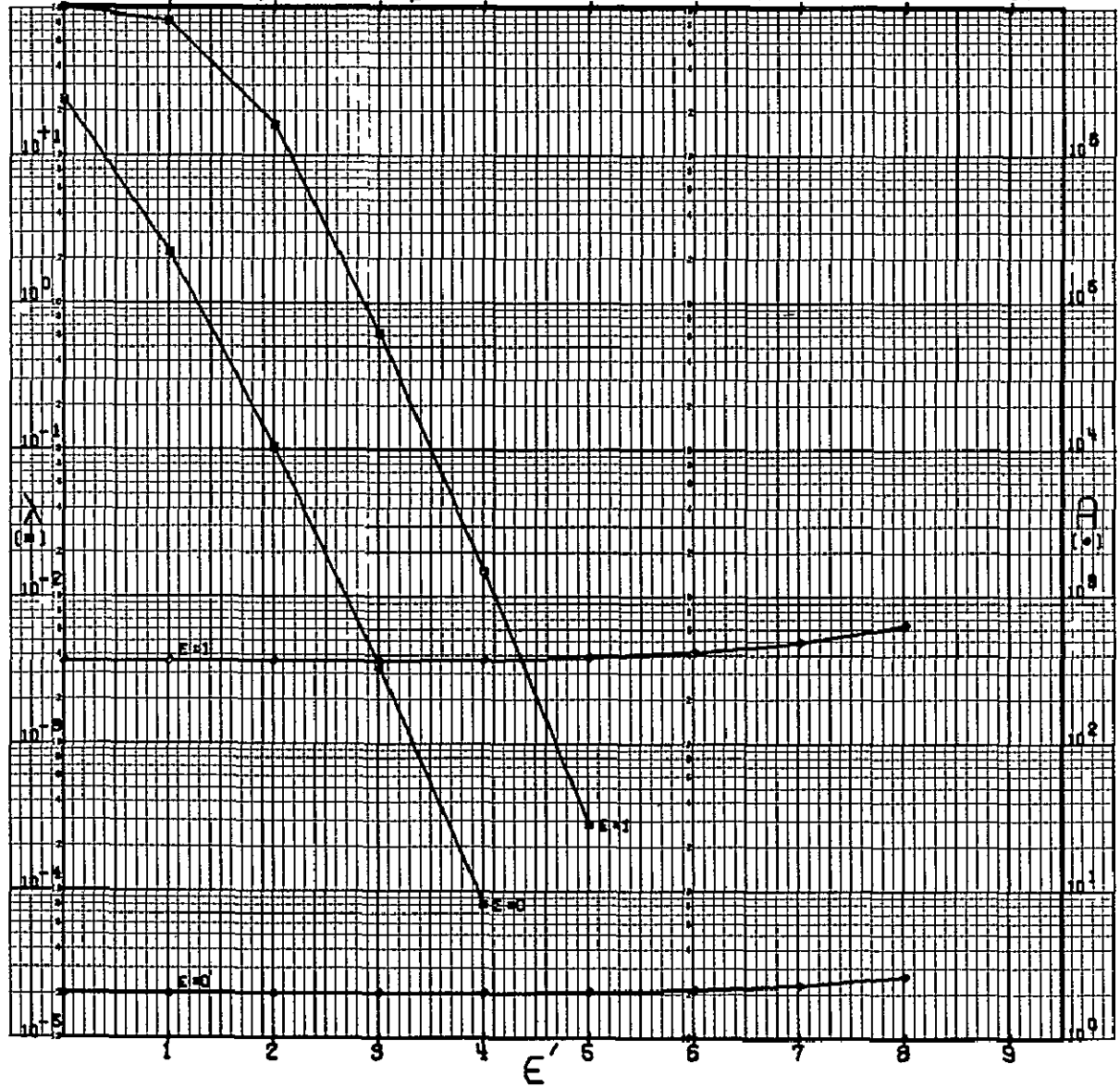
N=16

CODE 1110101110010000
GDFC STANDARD

$\eta = +0100$

$\beta = 20000$

(ORIGIN BY AGPS. CODE 512. GDFC)



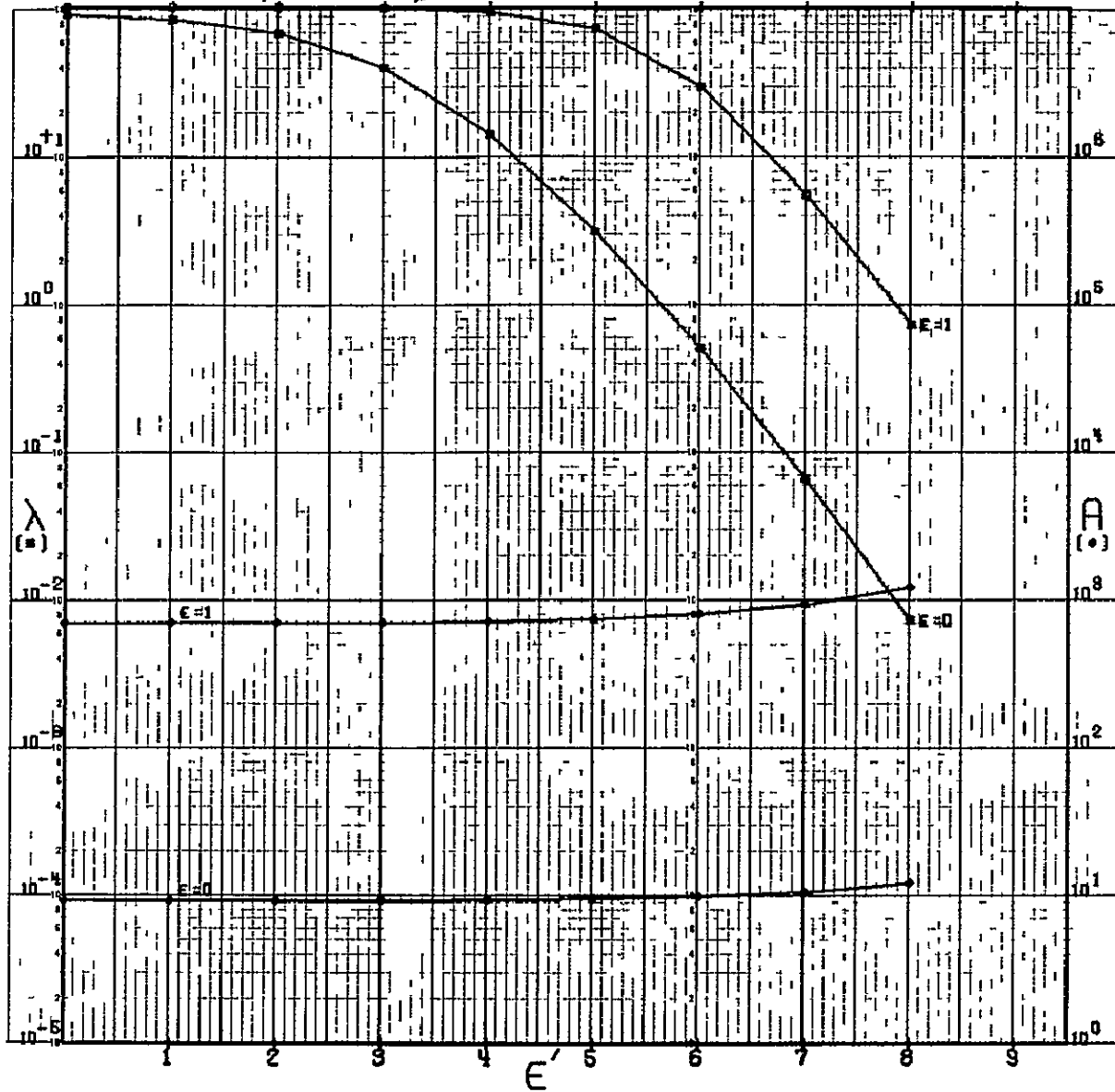
N=16

CODE 1110101110010000
GFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROYD, CODE 612, GFC)



$$N = 17$$

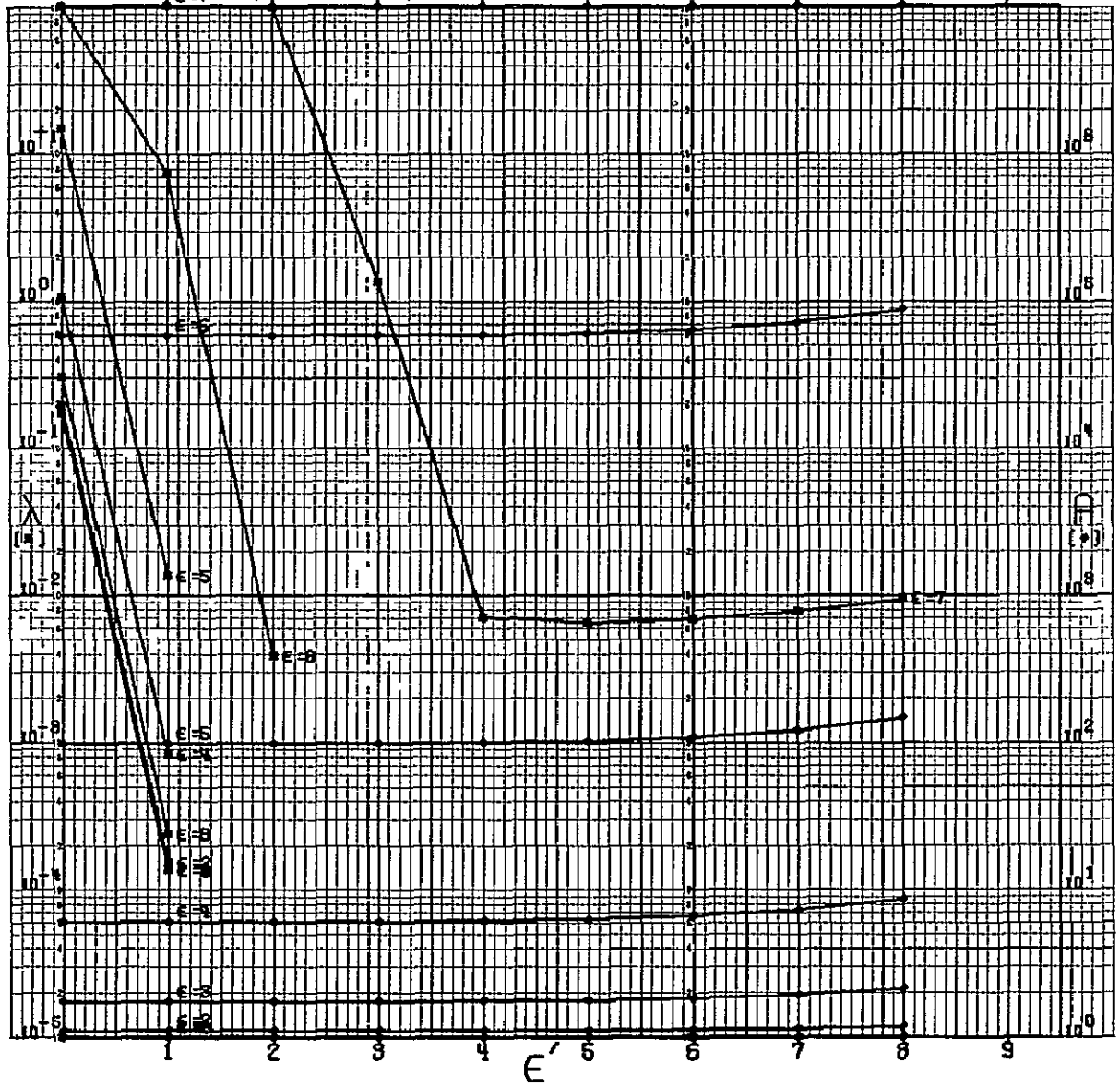
N=17

CODE 11110011010100000
GSFC STANDARD

$\epsilon = 7$ $\eta = -0001$

$\beta = 50$

(DRAWN BY ROPB CODE 5912 GSFC)



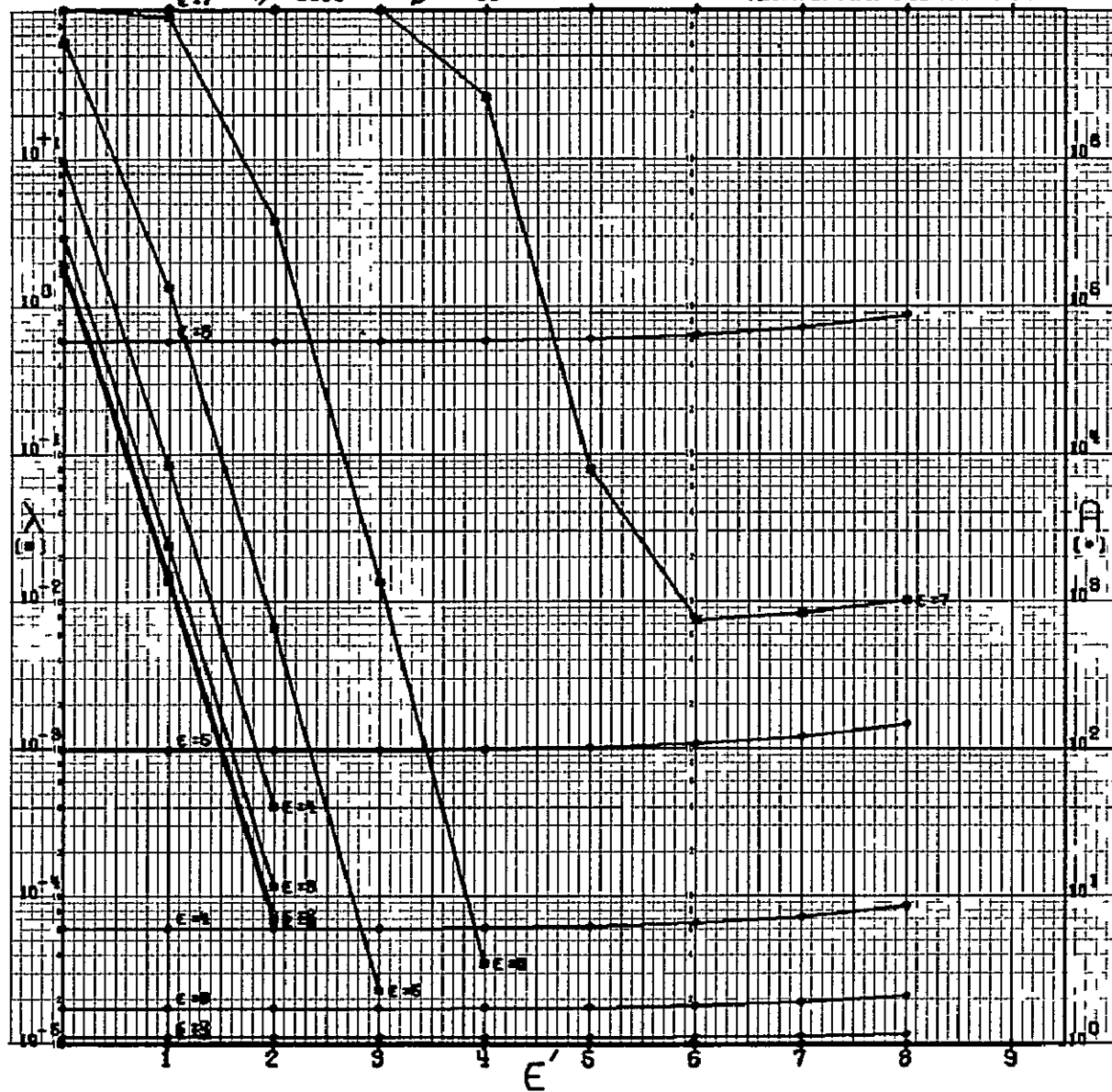
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = -0010$

$\beta = 50$

(DRAWN BY NOPS, CODE 592, GFC)



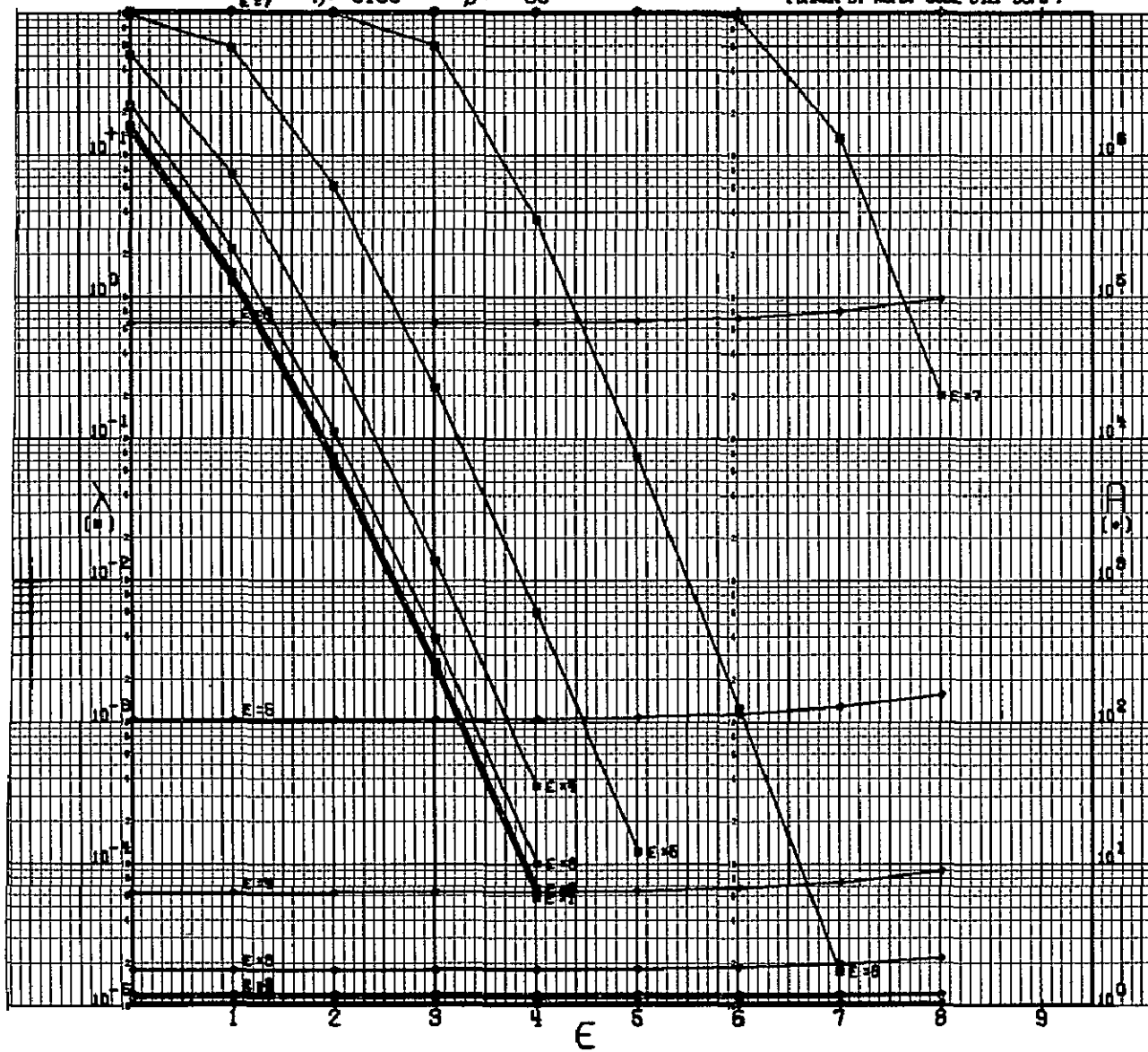
N=17

CODE 11110011010100000
GFC STANDARD

$\epsilon = 7$ $\eta = 0.100$

$\beta = 50$

(DRAWN BY AOPB, CODE 512, GFC)



N=17

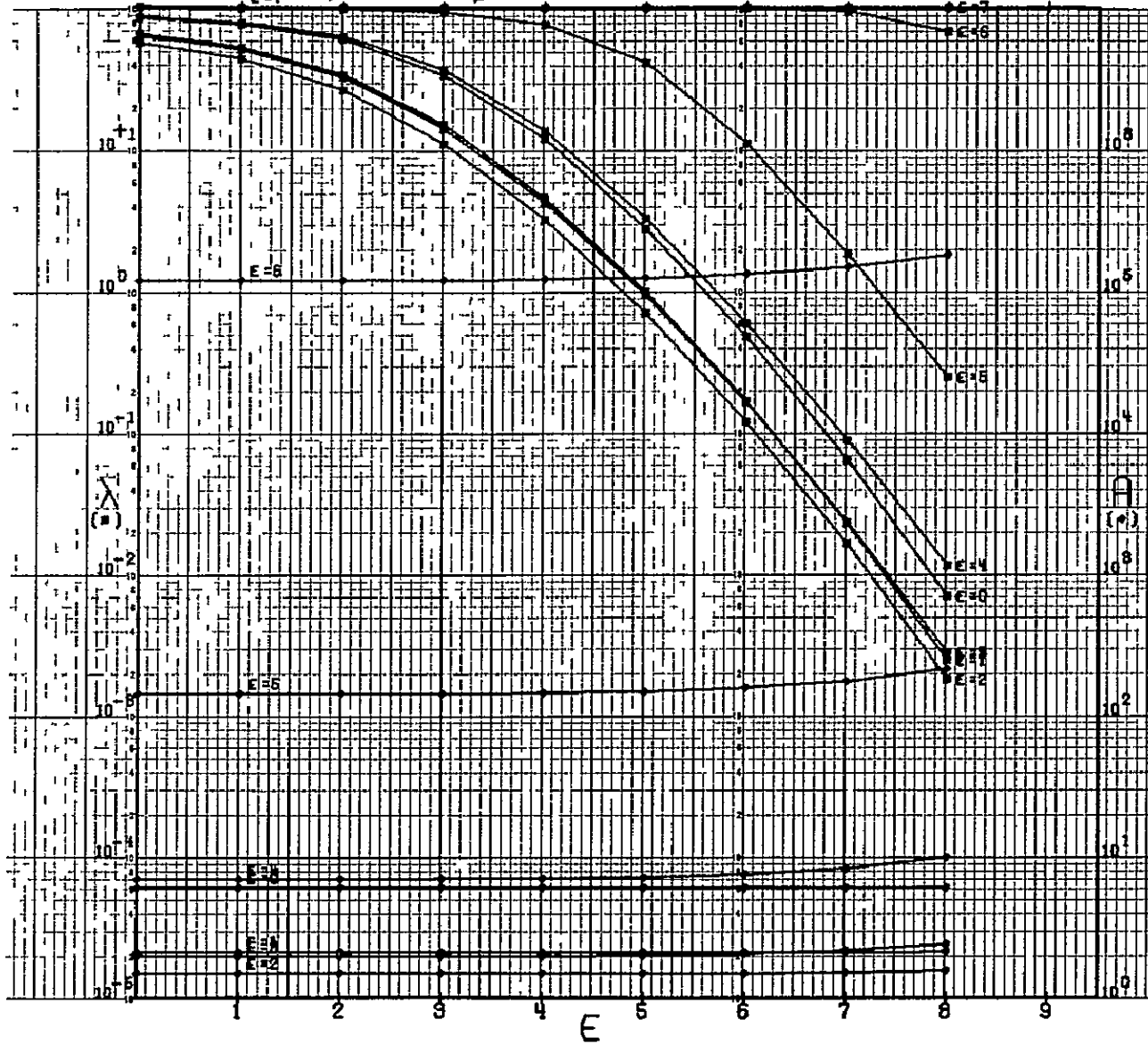
CODE 11110011010100000

GSFC STANDARD

$\epsilon=7$ $\eta=1000$

$\beta=50$

(DRAWN BY ROPS, CODE 512, GSFC)



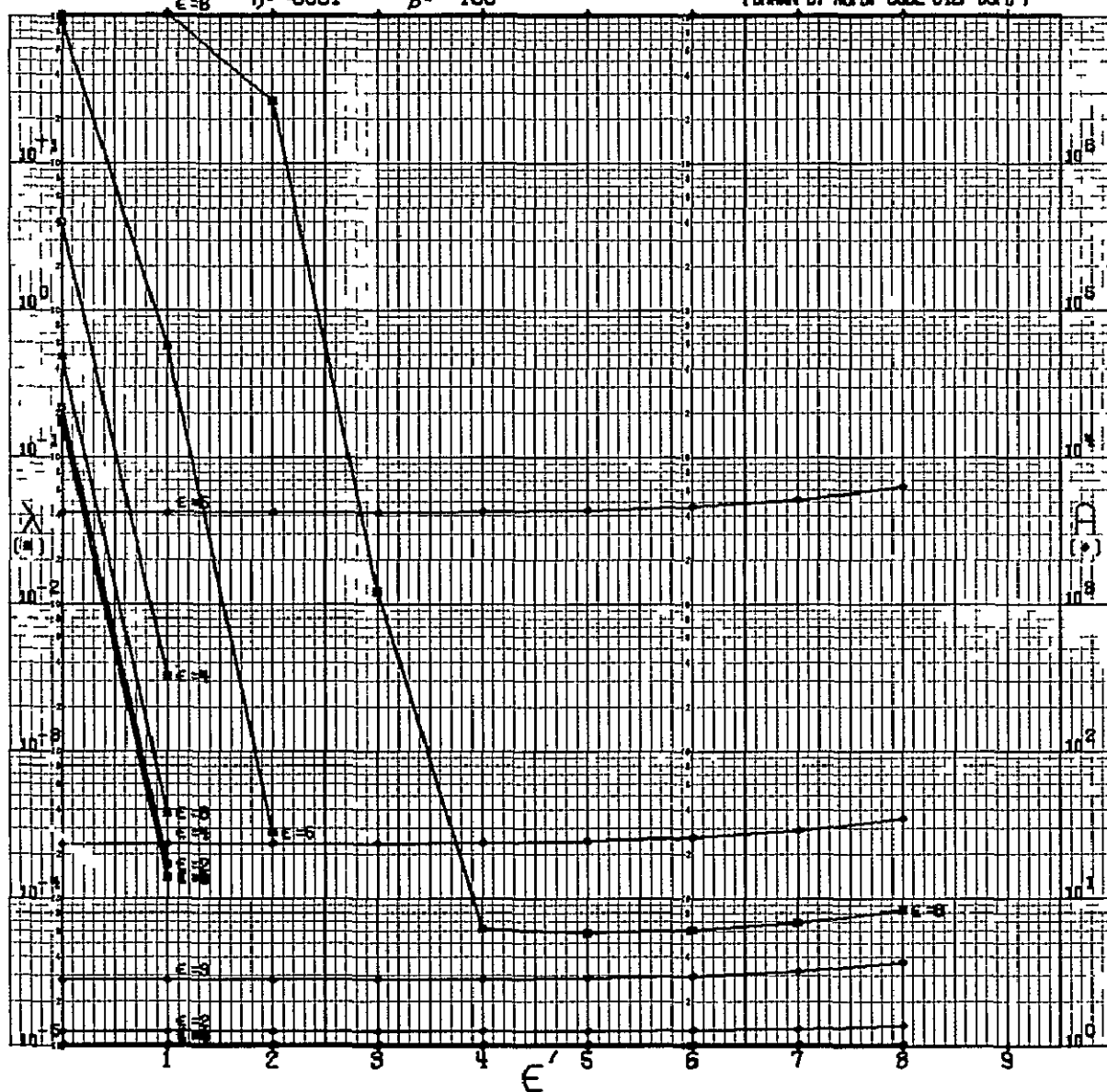
N=17

CODE 11110011010100000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0001$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



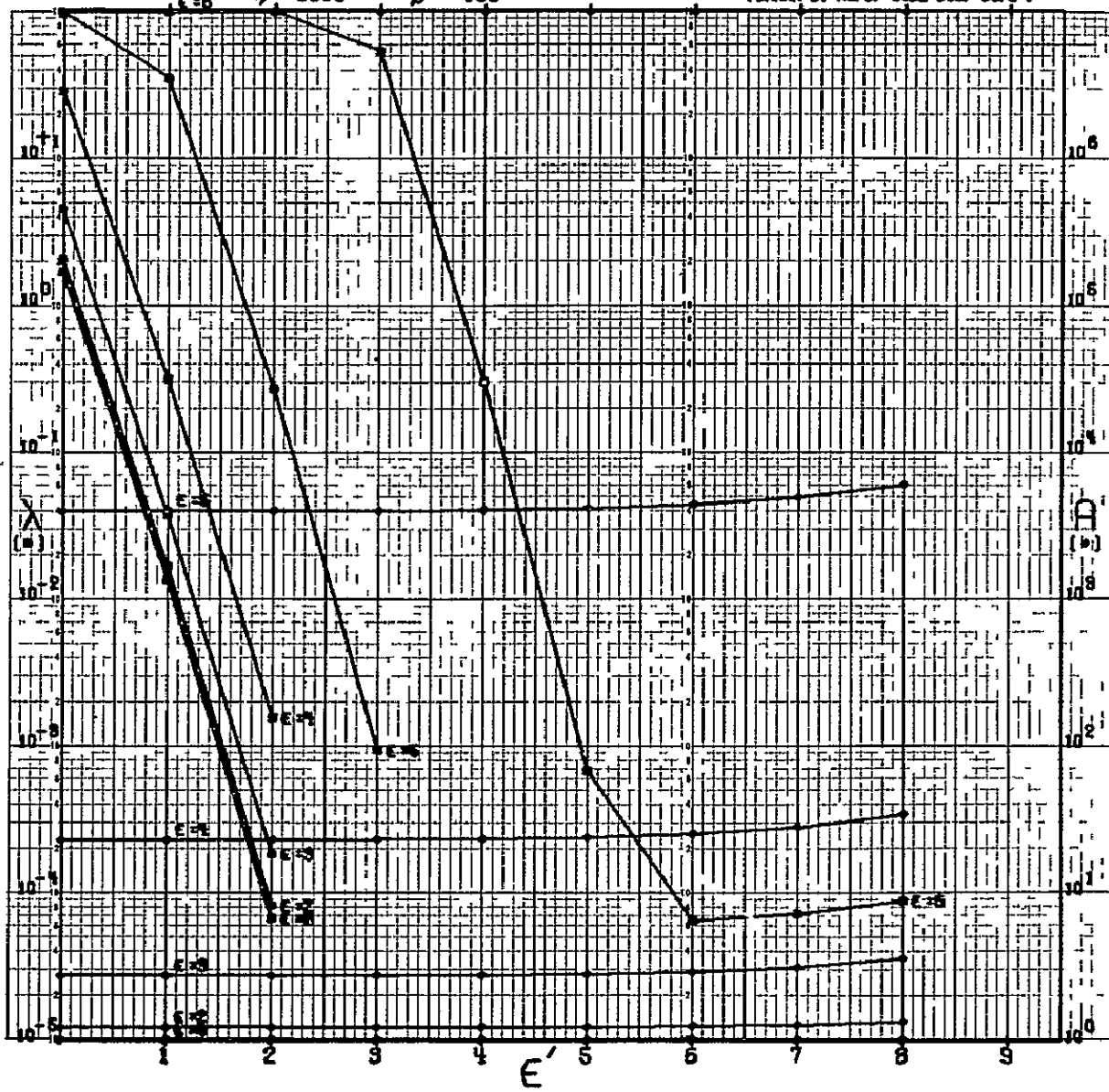
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = -0010$

$\beta = 100$

(DRAWN BY ROPS, CODE 512, GFC)



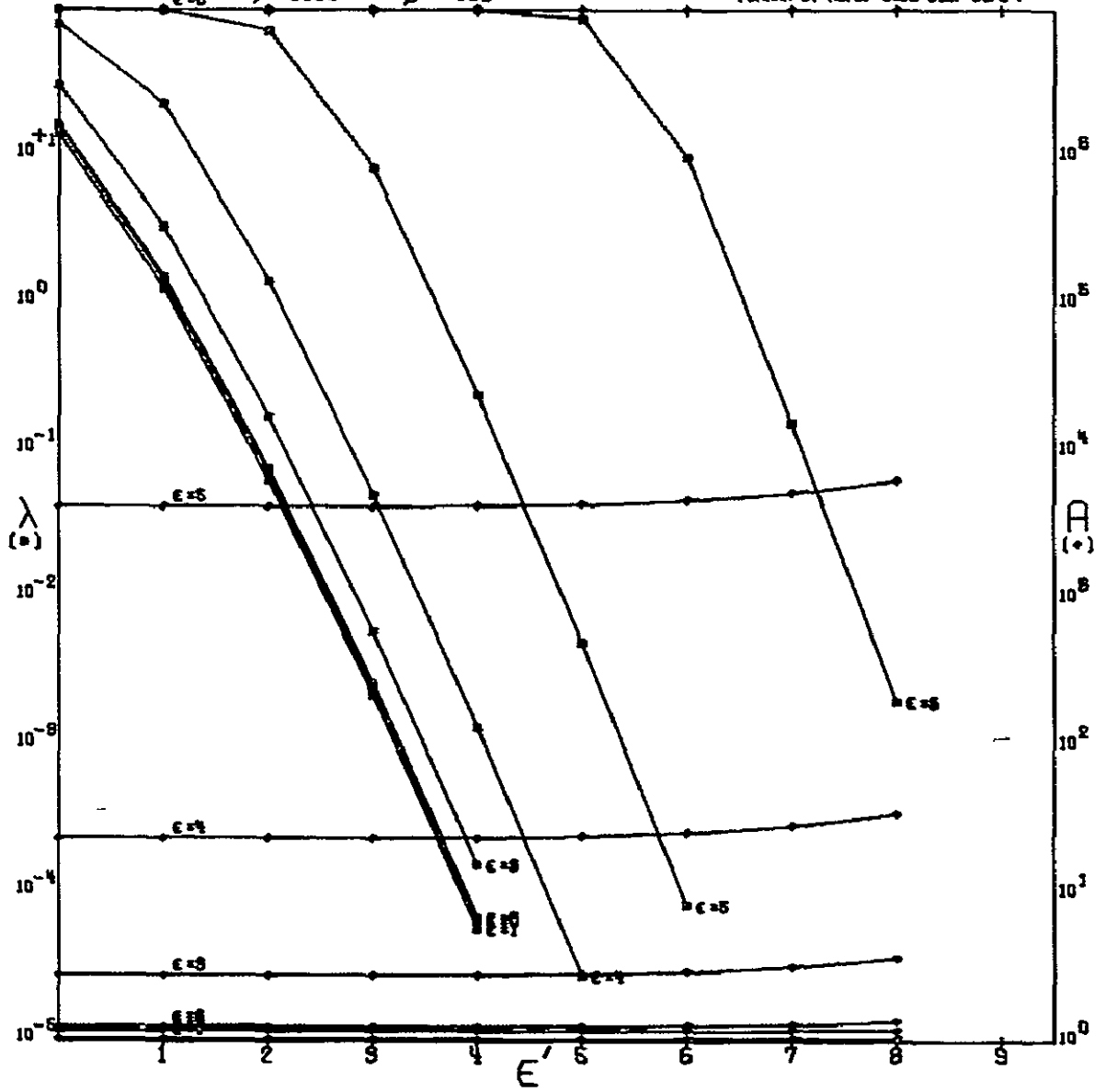
N=17

CODE 11110011010100000
GPG STANDARD

$\eta = -0100$

$\beta = 100$

(DESIGN BY AOPS CODE 542. GPGC)



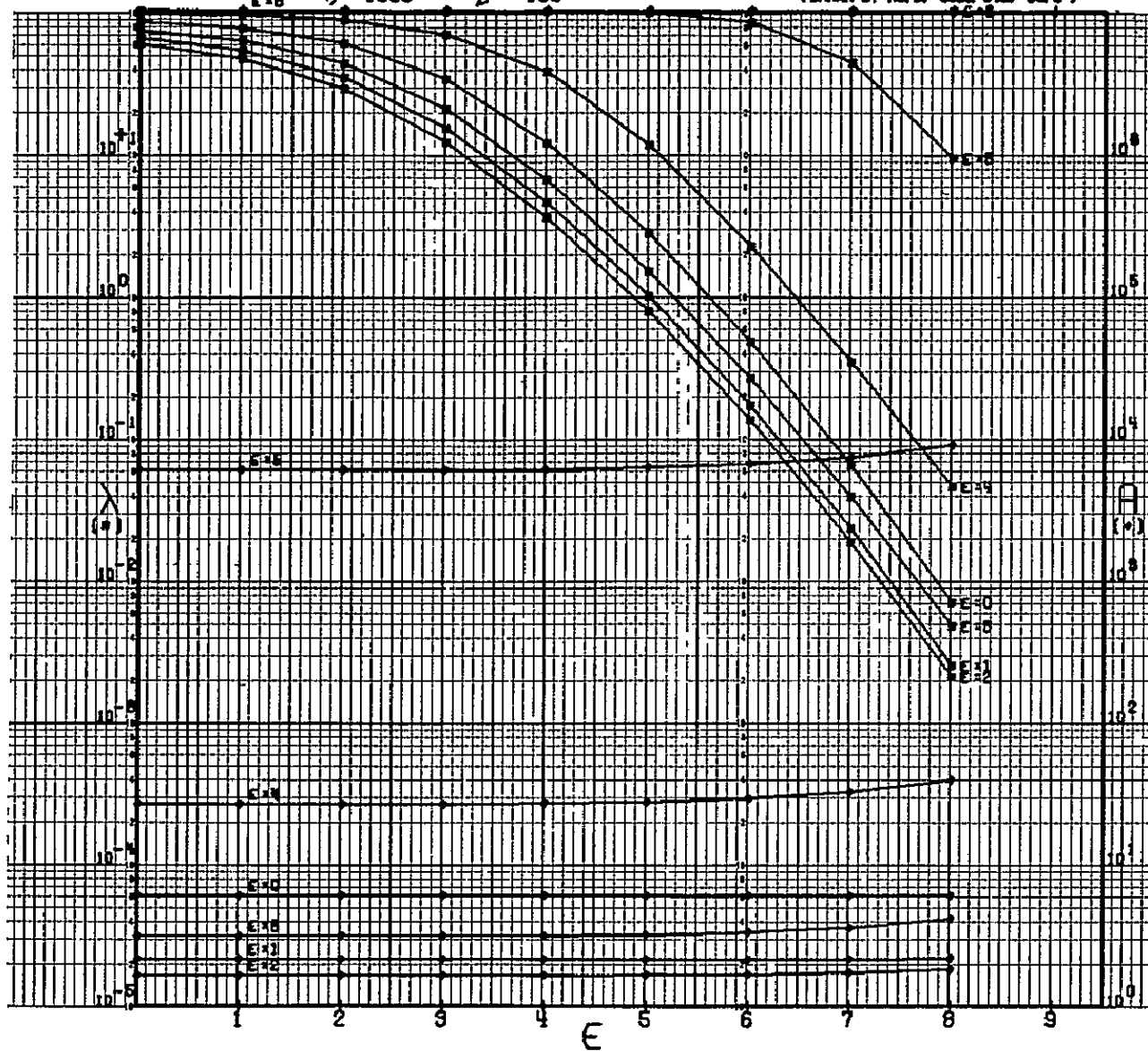
N=17

CODE 11110011010100000
SIFC STANDARD

$\epsilon = 6$ $b = 1000$

$\lambda = 100$

(OBTAIN BY RDB. CODE 542, GDFC)



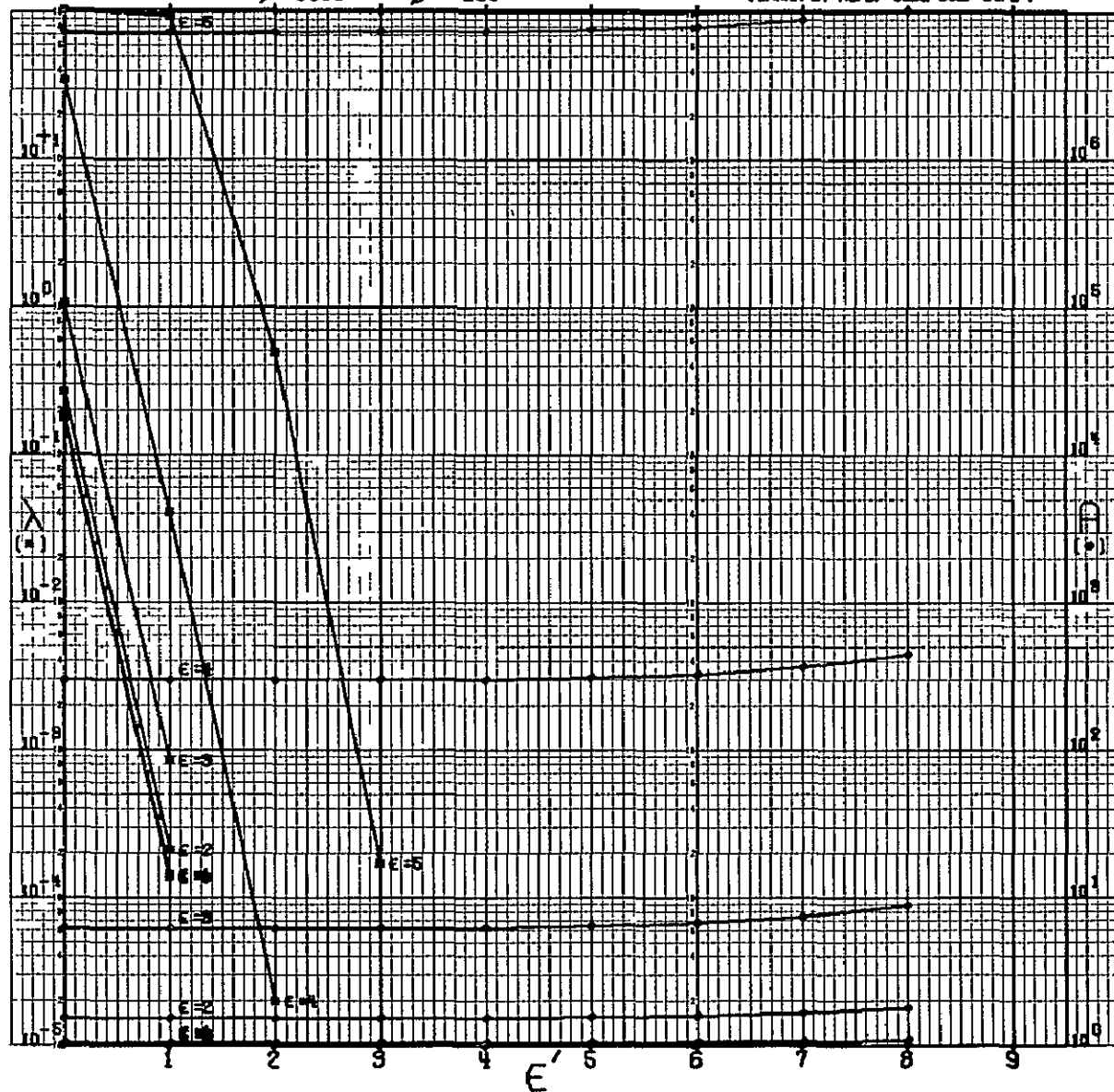
N = 17

CODE 11110017010100000
GDFC STANDARD

$\eta = -0001$

$\beta = 200$

(DRAWN BY ADP. CODE 512, GDFC)



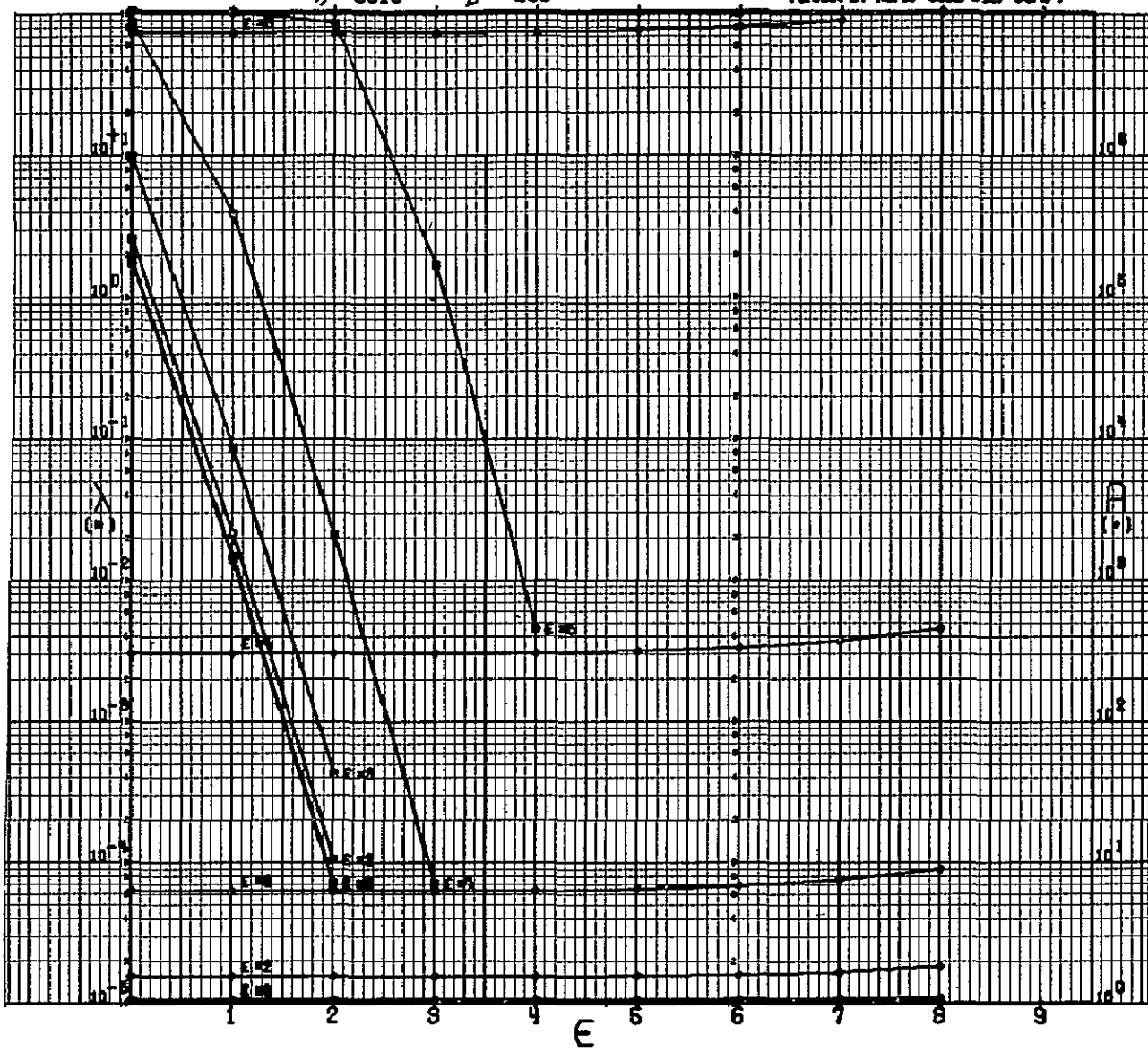
N=17

CODE 1111001101010000
GSPC STANDARD

$\eta = 0.010$

$\beta = 200$

(DRAWN BY NCPIL CODE 592, GSPC)



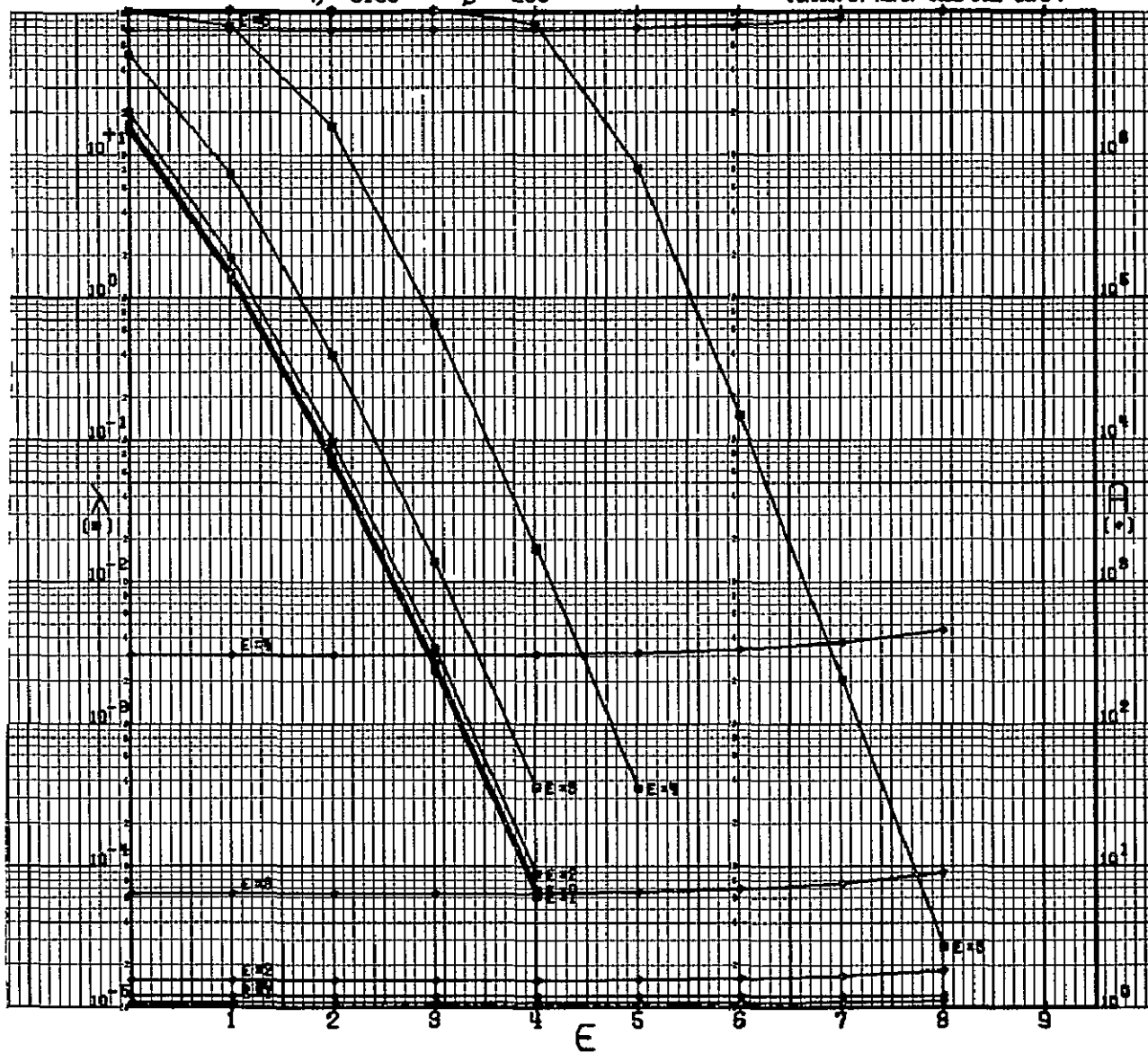
N=17

CODE 11110011010100000
GFC STANDARD

$b = 0.100$

$\beta = 200$

(DRAWN BY ROPS CODE 512, GFC)



N* 17

CODE 11110011010100000

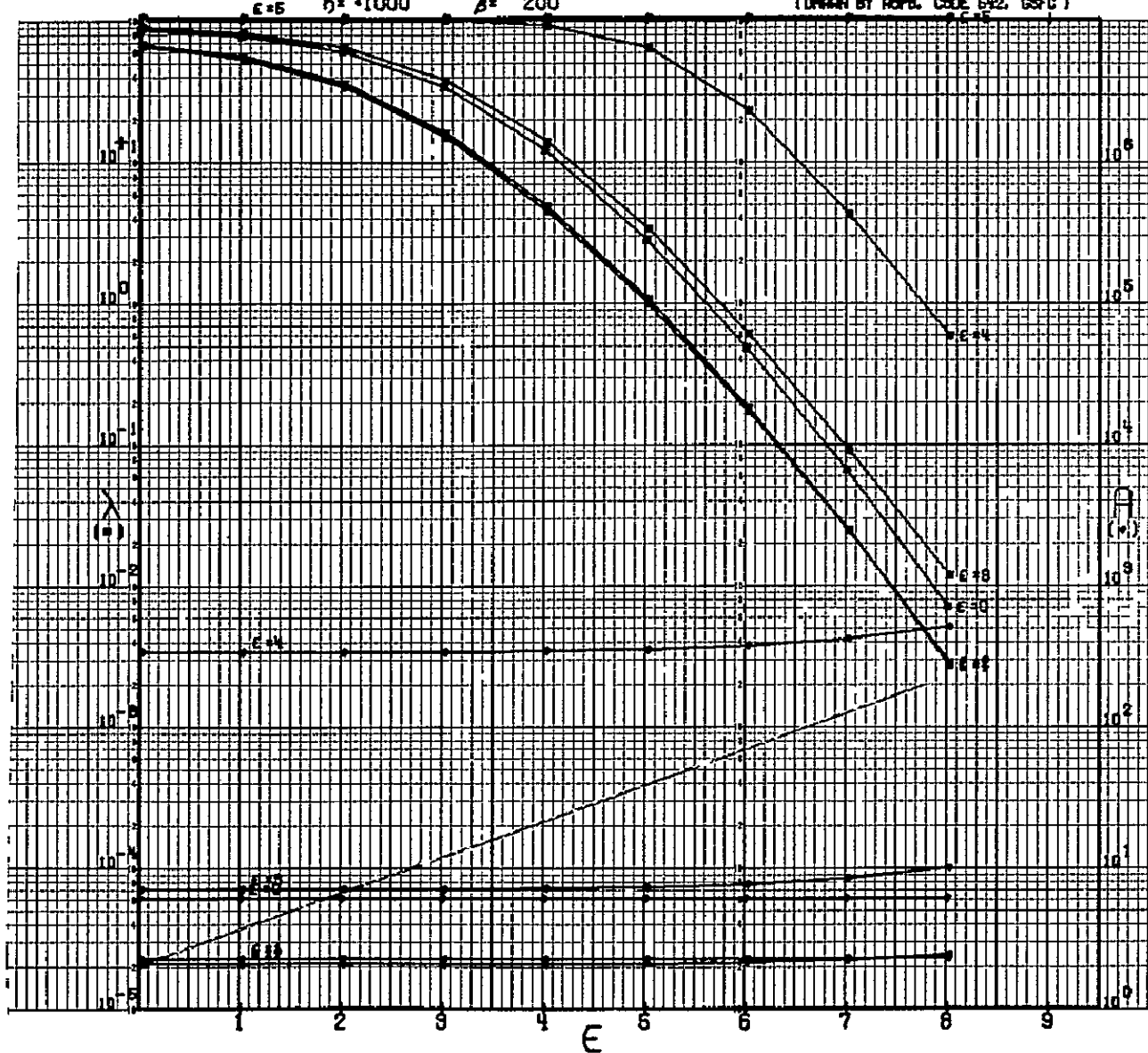
GSFC STANDARD

$\epsilon = 5$

$b = 1000$

$\beta = 200$

(DRAWN BY ROPS. CODE EX2. GSFC)



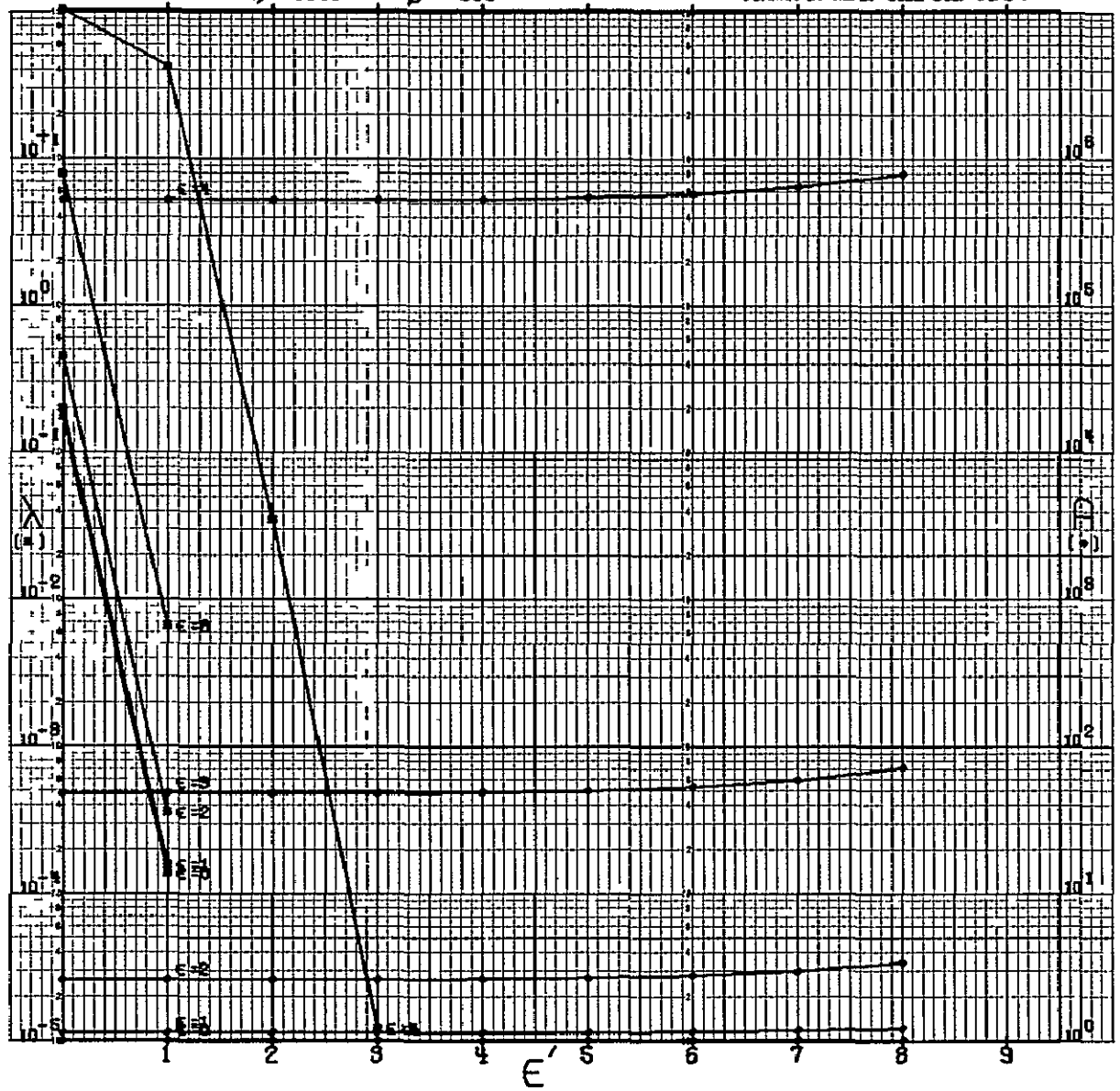
N=17

CODE 11110011010100000
GGFC STANDARD

$\eta = -0001$

$\beta = 500$

(DRAWN BY ADP6, CODE 612, GGFC)



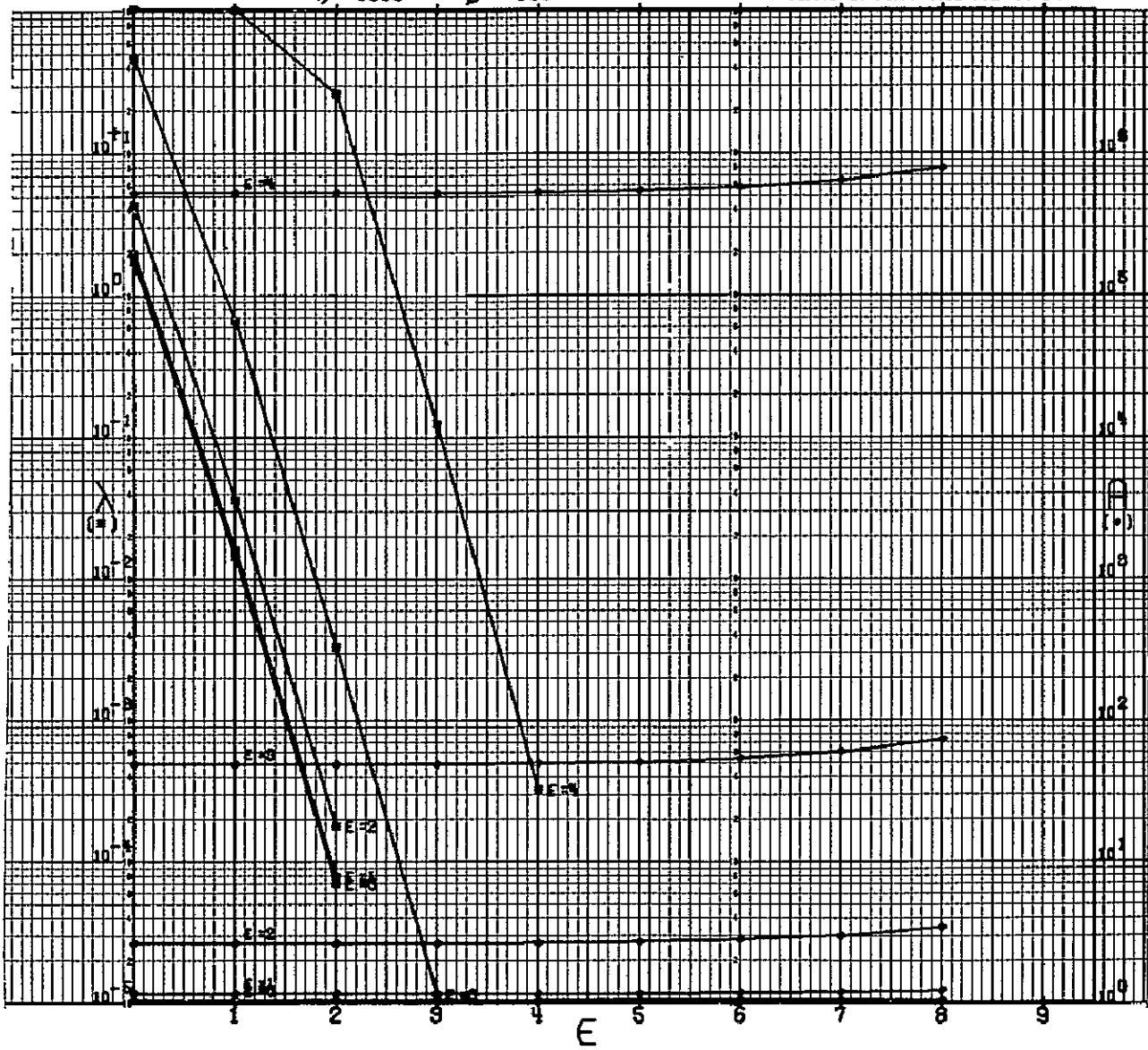
N=17

CODE 11110011010100000
GBFC STANDARD

$\eta = -0010$

$\beta = 500$

(DRAWN BY ROPL CODE 592, GBFC)



N=17

CODE 11120011010100000
GFC STANDARD

$\eta = 0.100$

$\beta = 500$

(DRAWN BY ROPB, CODE 592, GFC)



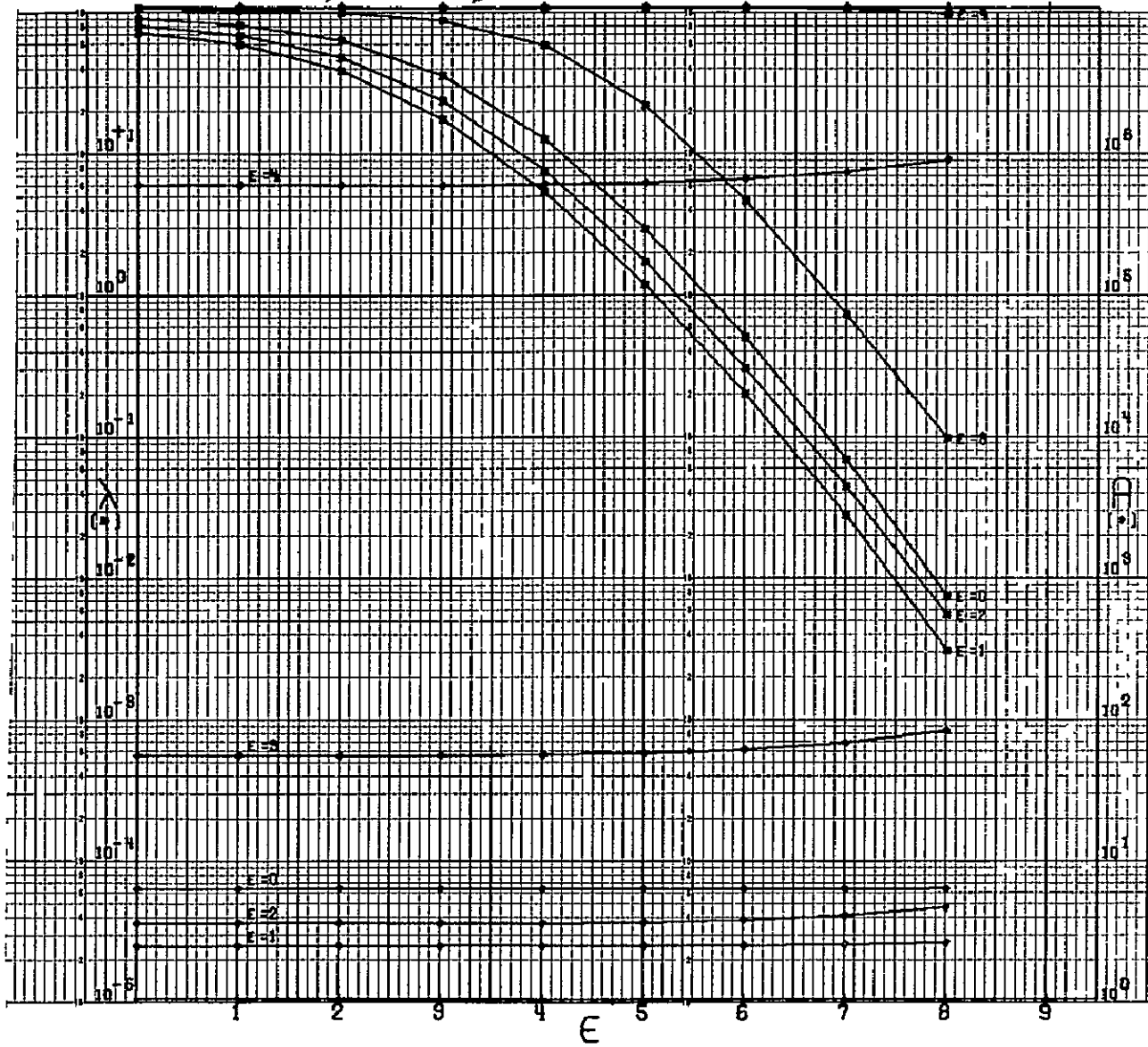
N=17

CODE 11110011010100000
GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ADP. CODE 542. GSFC)



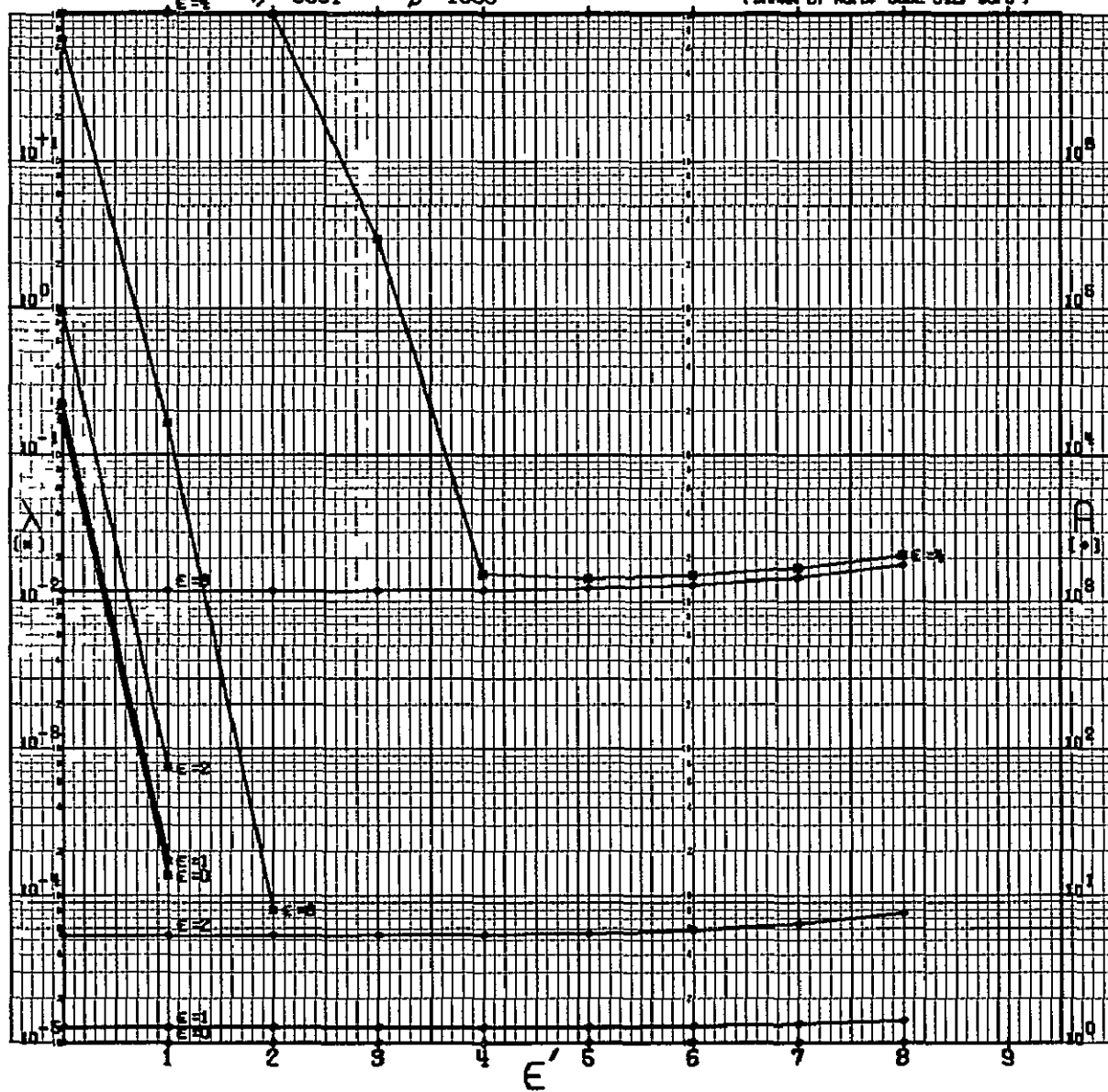
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = -0001$

$\beta = 1000$

(DRAWN BY ROYB. CODE 592. GFC)



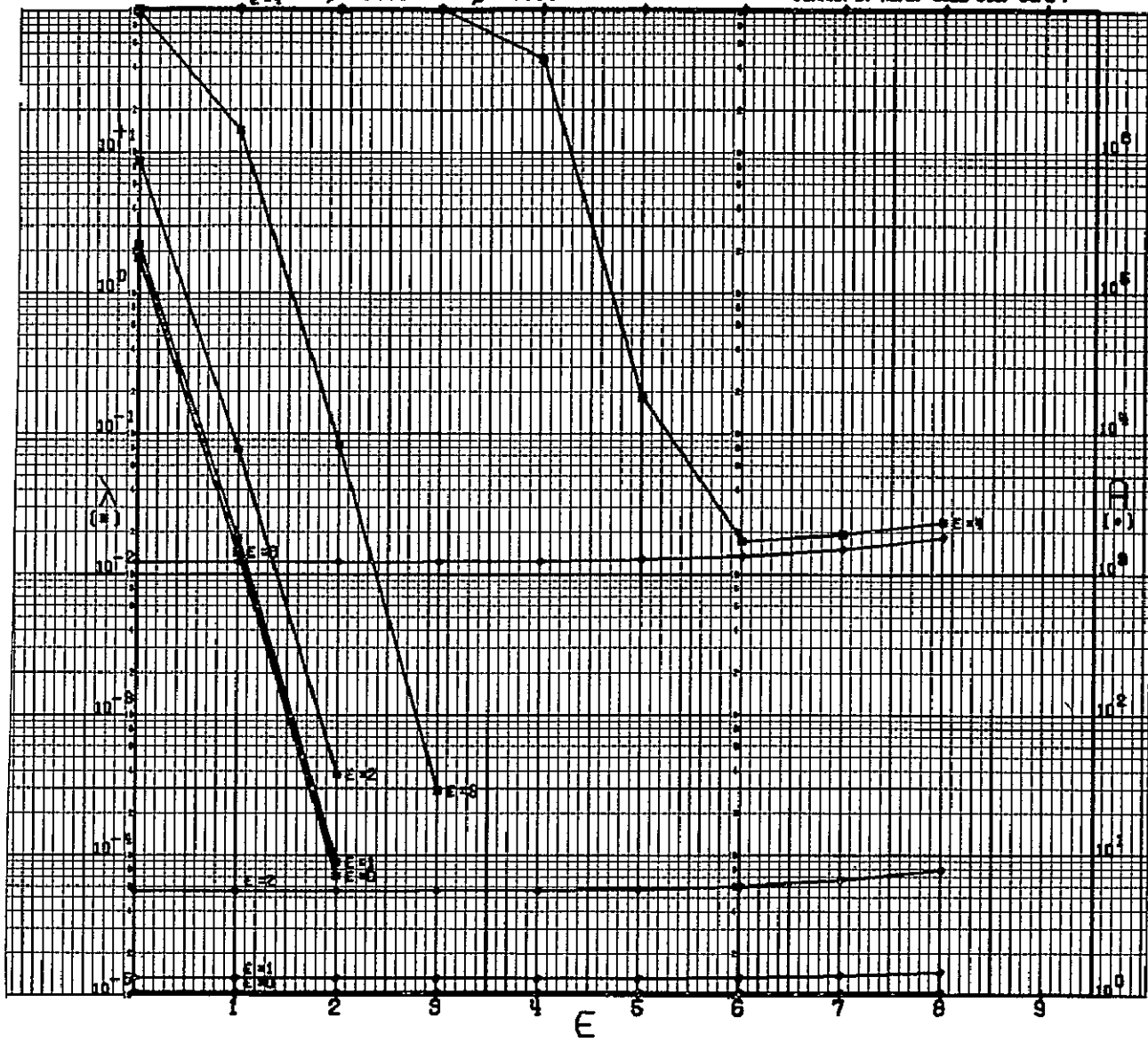
N=17

CODE 11110011010100000
GFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPEL CODE 592, GFC)



N° 17

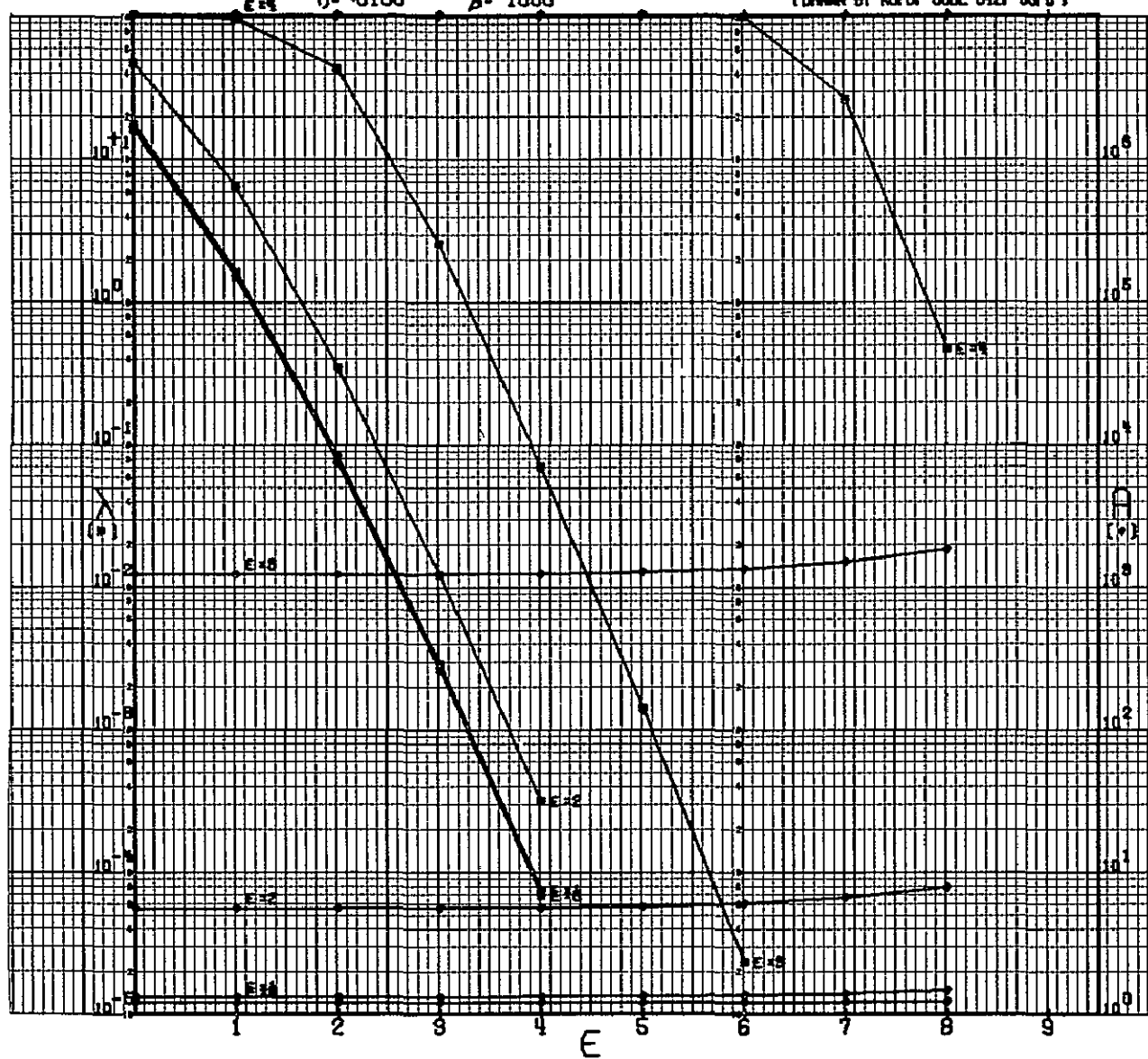
CODE 11110011010100000

GEFC STANDARD

$\eta = -0.100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 592, GEFC)



N=17

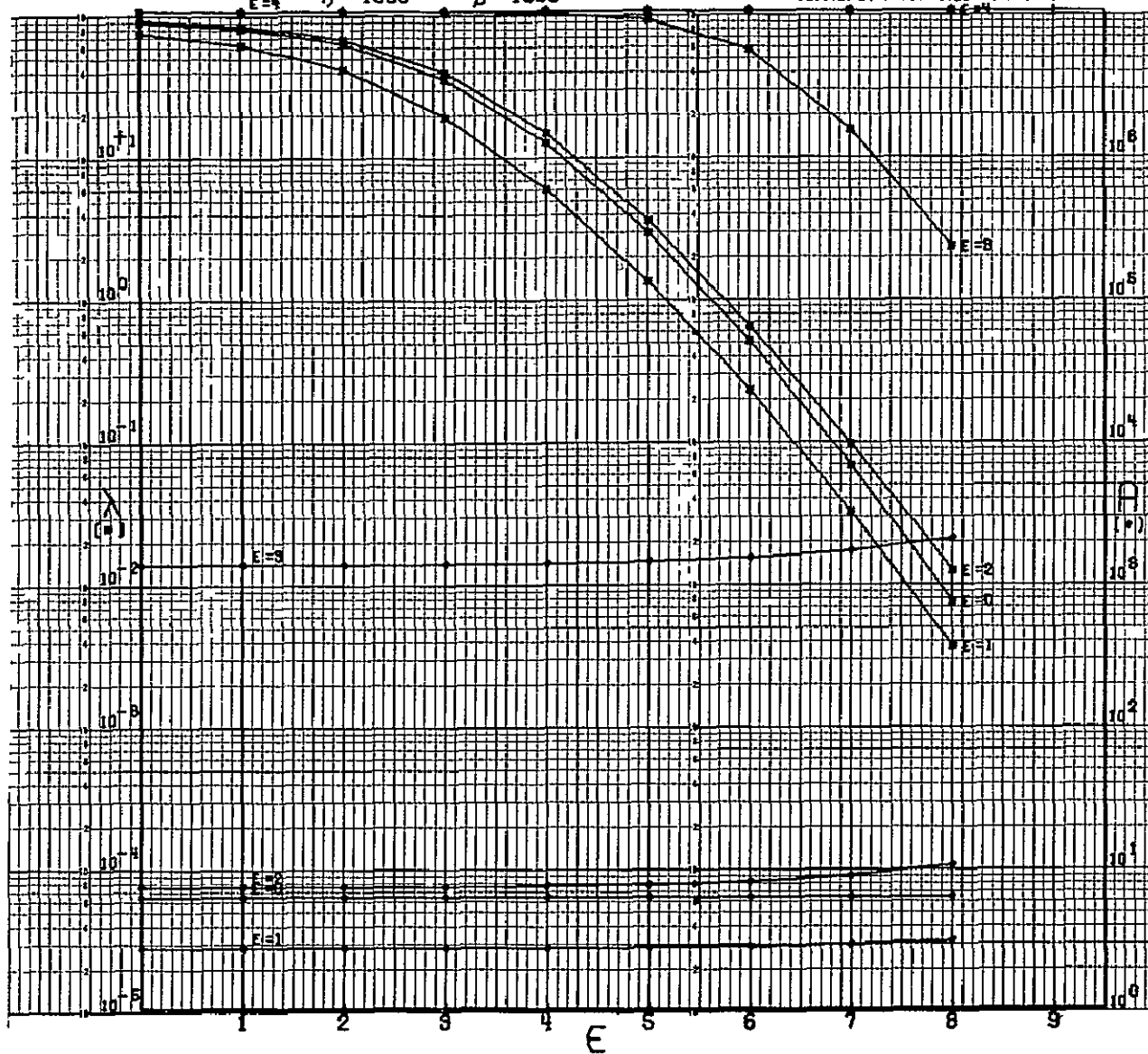
CODE 11110011010100000
GSFC STANDARD

$\epsilon = 4$

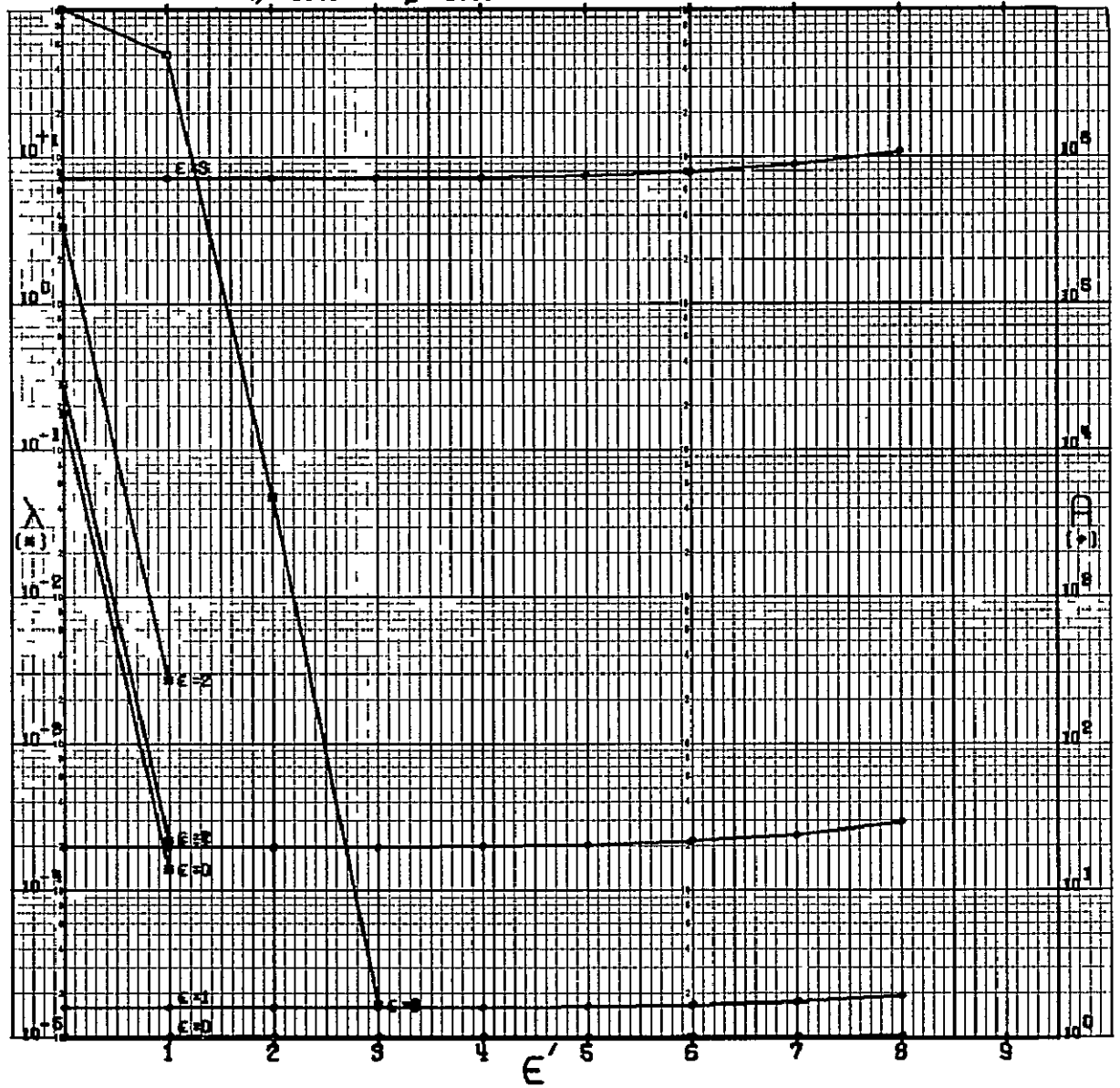
$\eta = +1000$

$\beta = 1000$

(DRAWN BY ROPS. CODE 542. GSFC)



N=17 CSDE 11110011010100000
 GSGC STANDARD $\eta = -0.001$ $\beta = 2000$ (DRAWN BY ROFG, CSDE 592, GSGC)



N=17

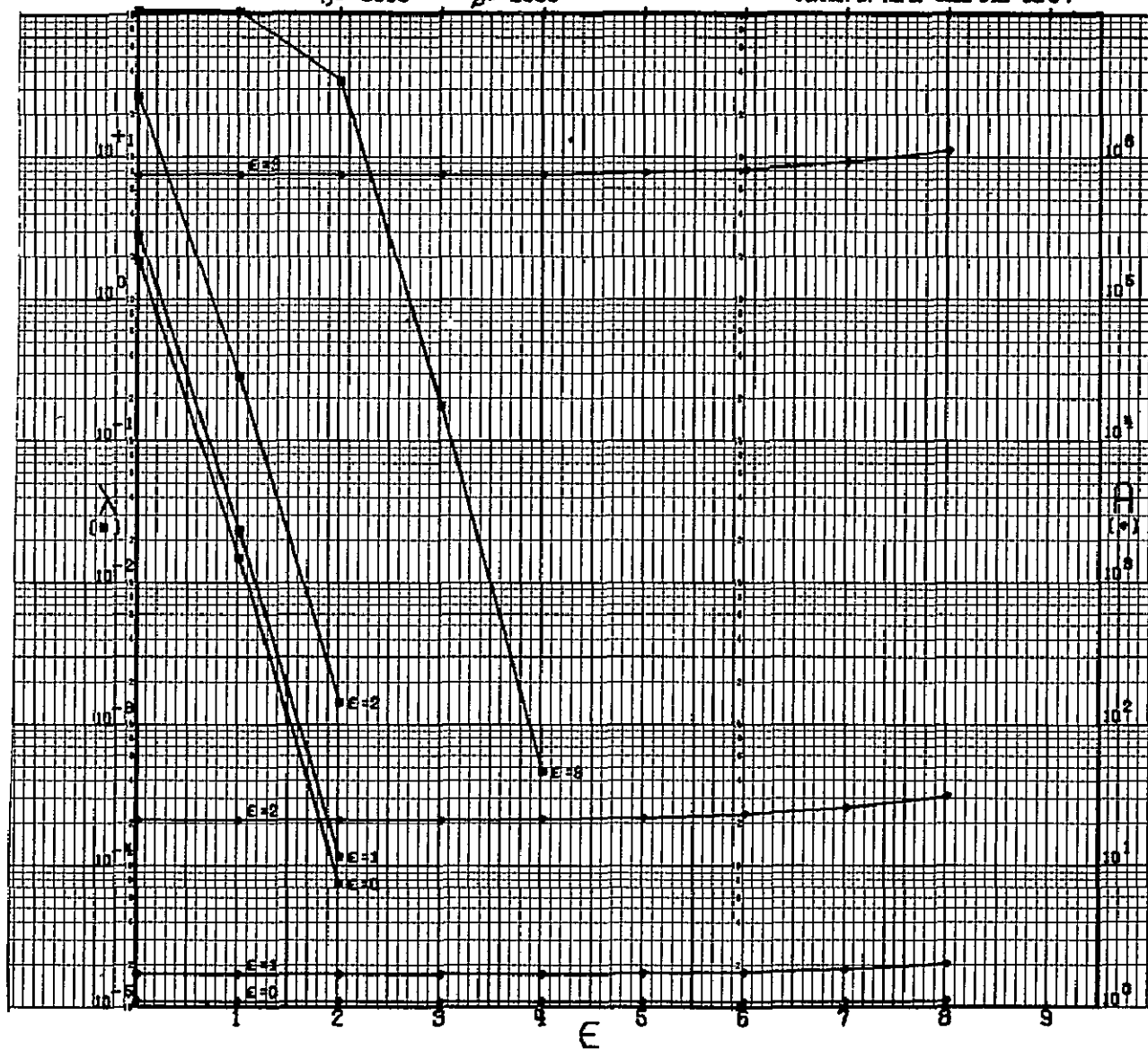
CODE 11120011010100000

GEFC STANDARD

$\eta = 0.010$

$\beta = 2000$

(DRAWN BY AOPS, CODE 592, GFC)



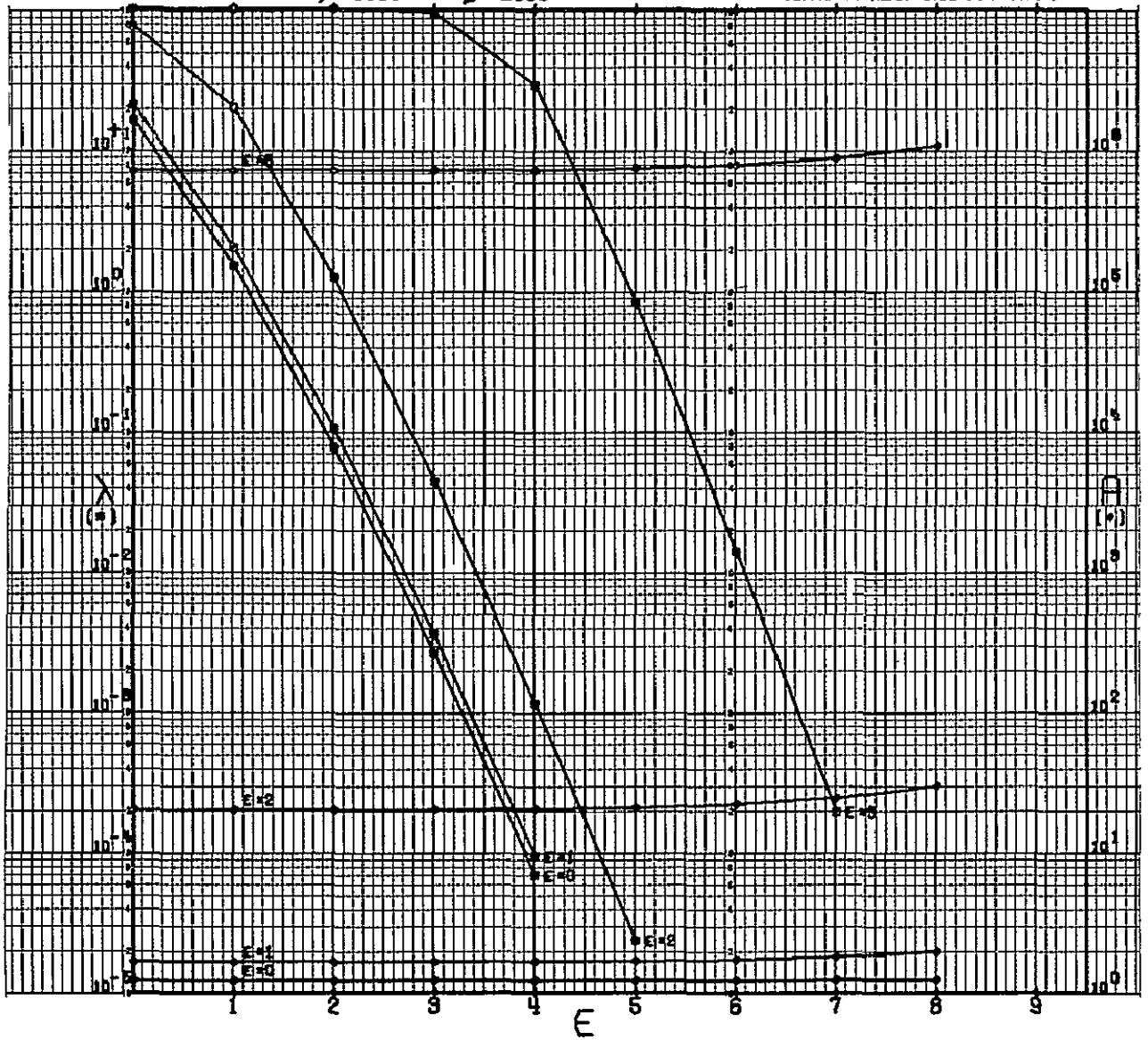
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY RFPB. CODE 092. GFC)



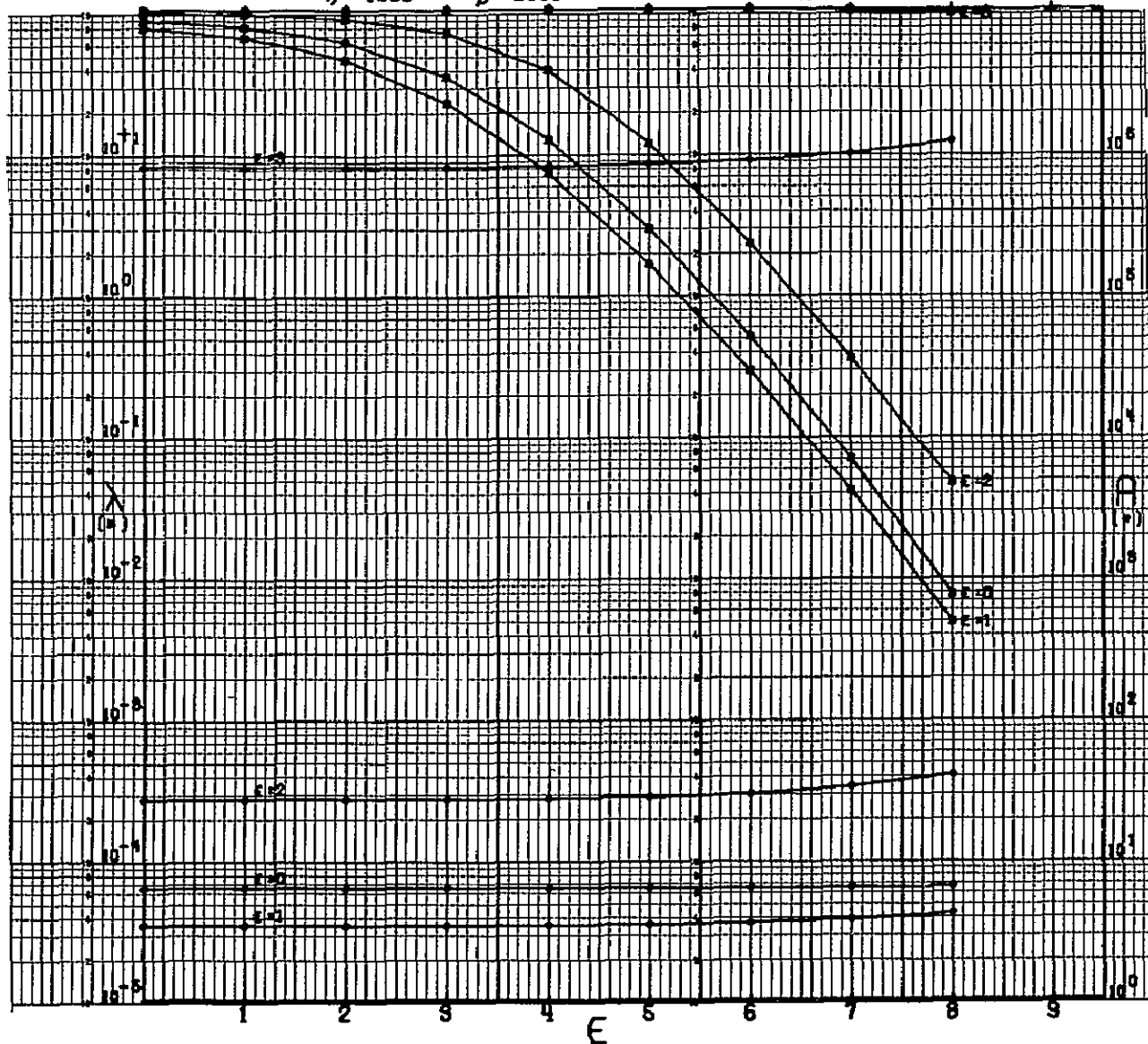
N=17

CODE 11110011010100000
GDFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DESIGN BY ROPL. CODE 542. GDFC)



N=17

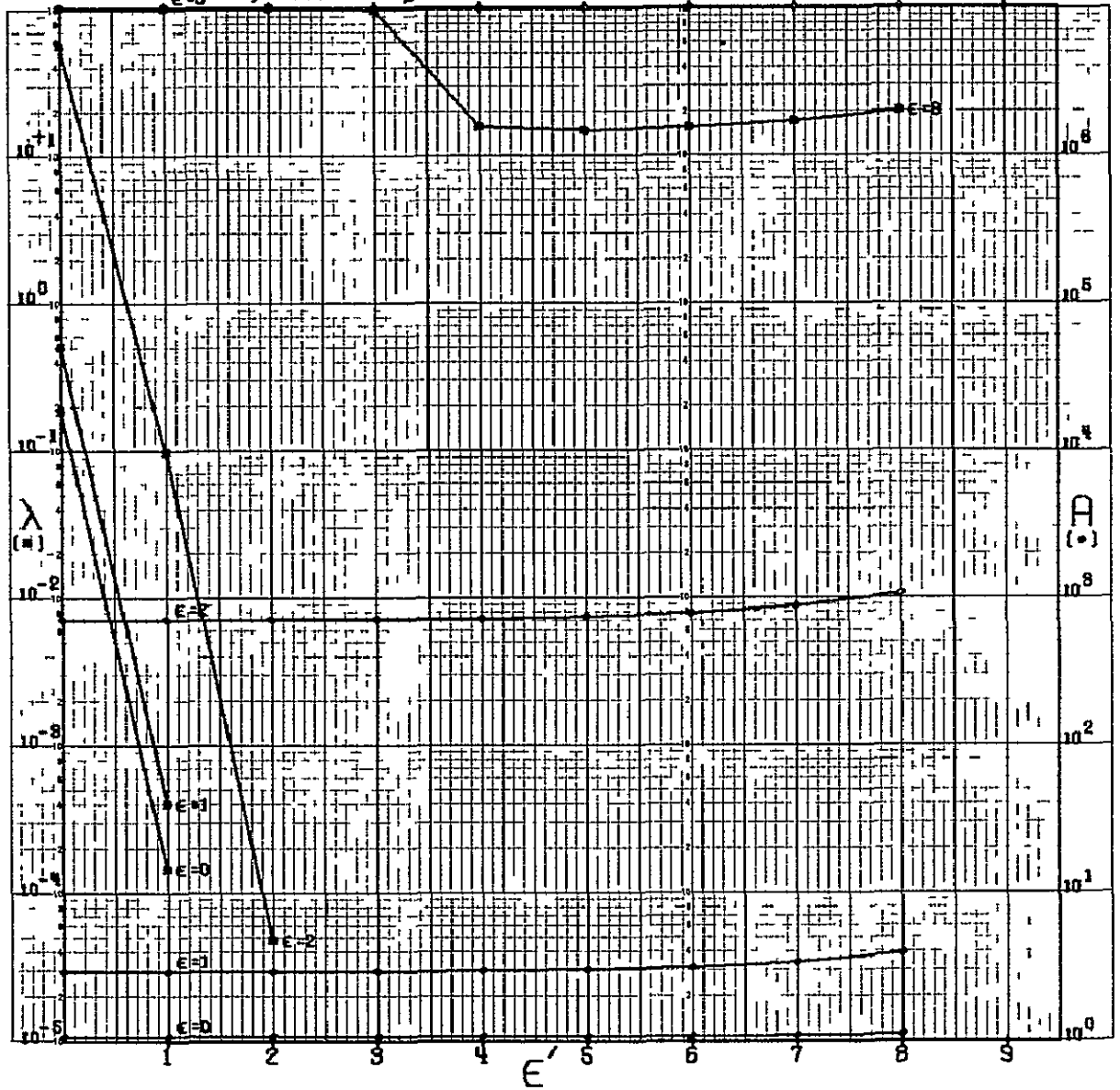
CODE 11110011010100000

GSFC STANDARD

$\eta = .0001$

$\beta = 5000$

(DRAWN BY ASPL, CODE 512, GSFC)



N=17

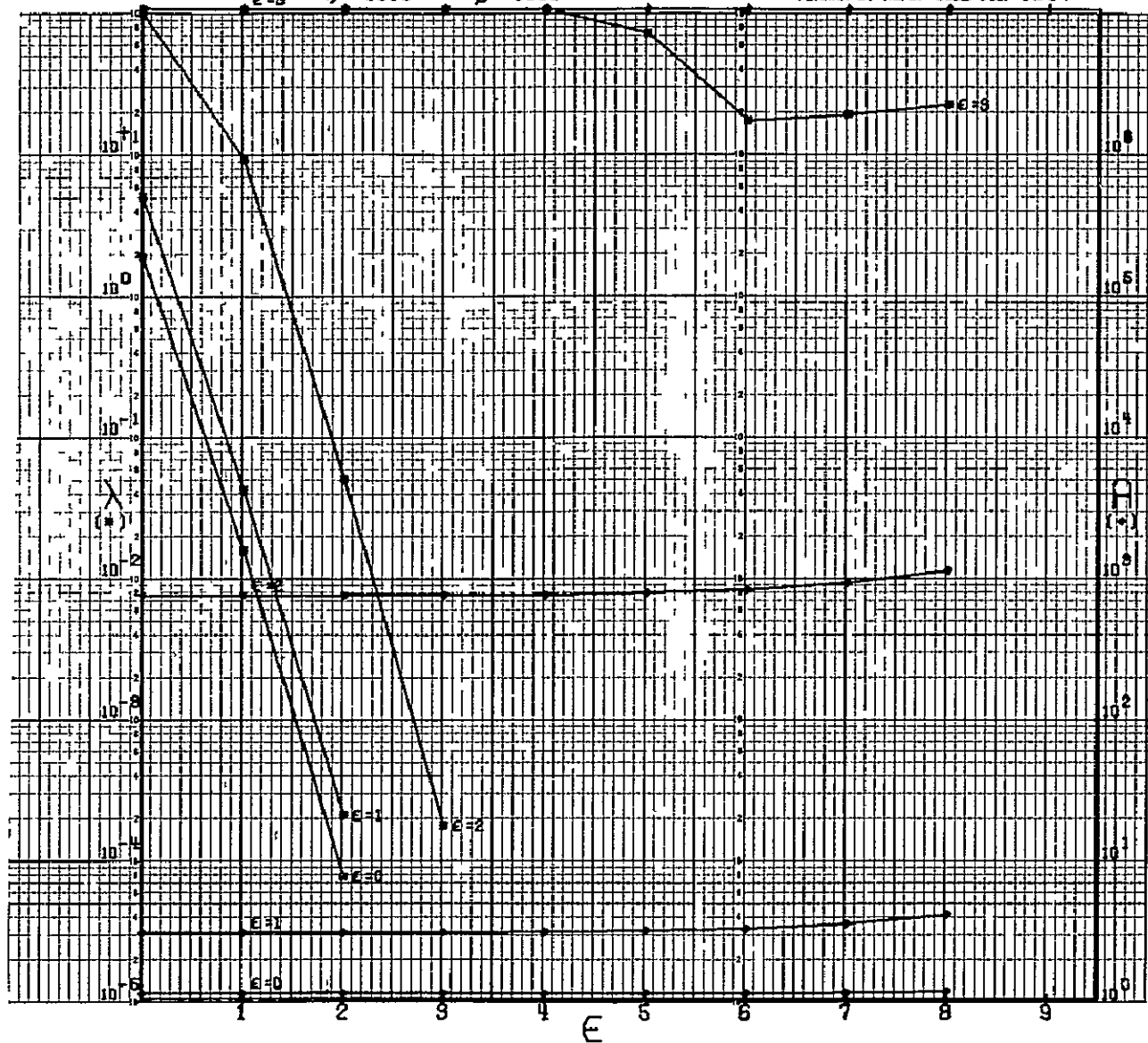
CODE 111100110101000000

GBFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPB. CODE 592, GBFC)



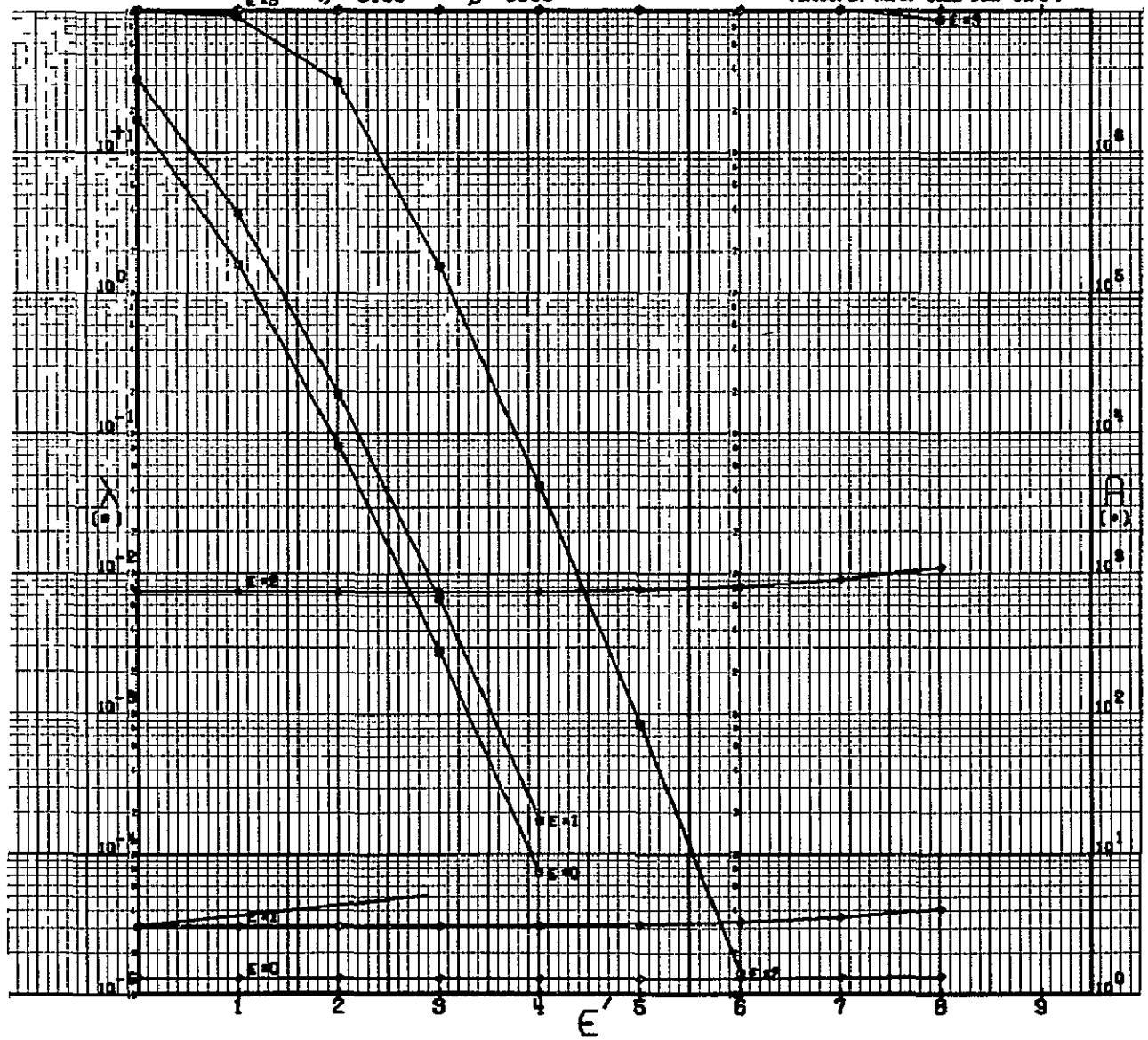
N = 17

CODE 11110011010100000
SIFC STANDARD

$\eta = 0.100$

$\beta = 5000$

(DRAWN BY ADP CODE 592, SIFC)



A-317

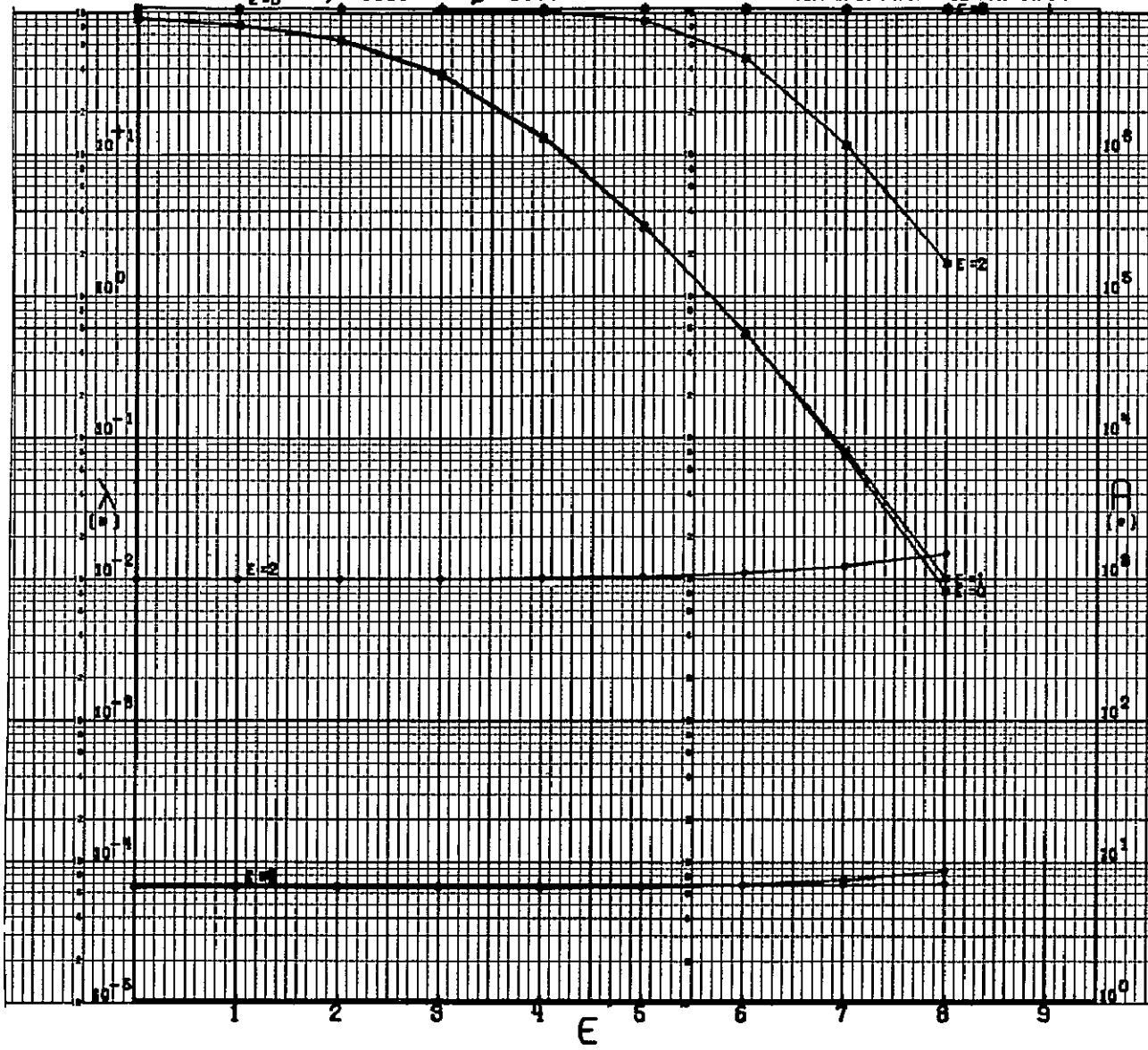
N=17

CODE 11110011010100000
SDFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ADP. CODE 592. SDFC)



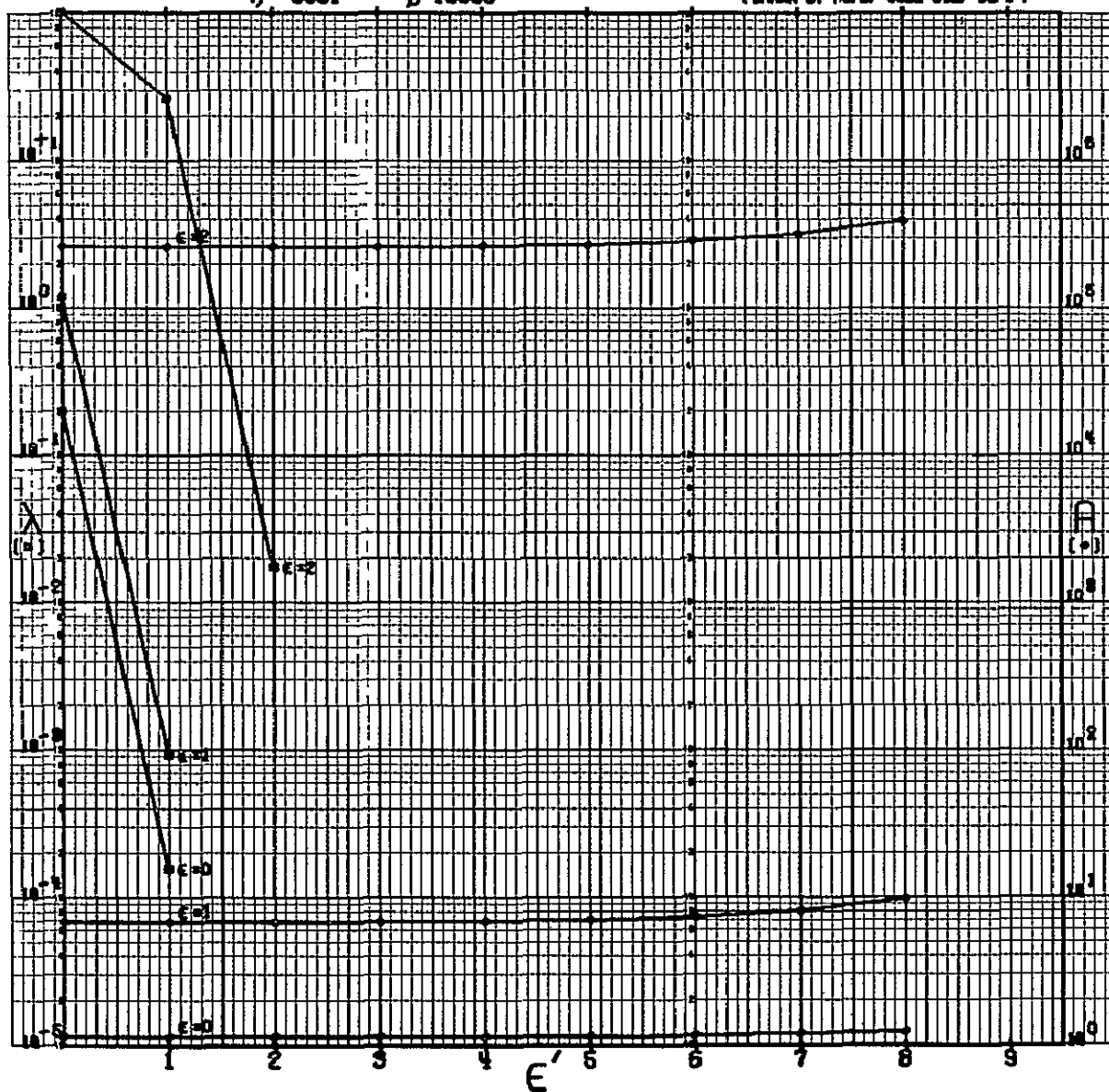
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = -0001$

$\beta = 10000$

(DRAWN BY NORD CODE 512, 55FC)



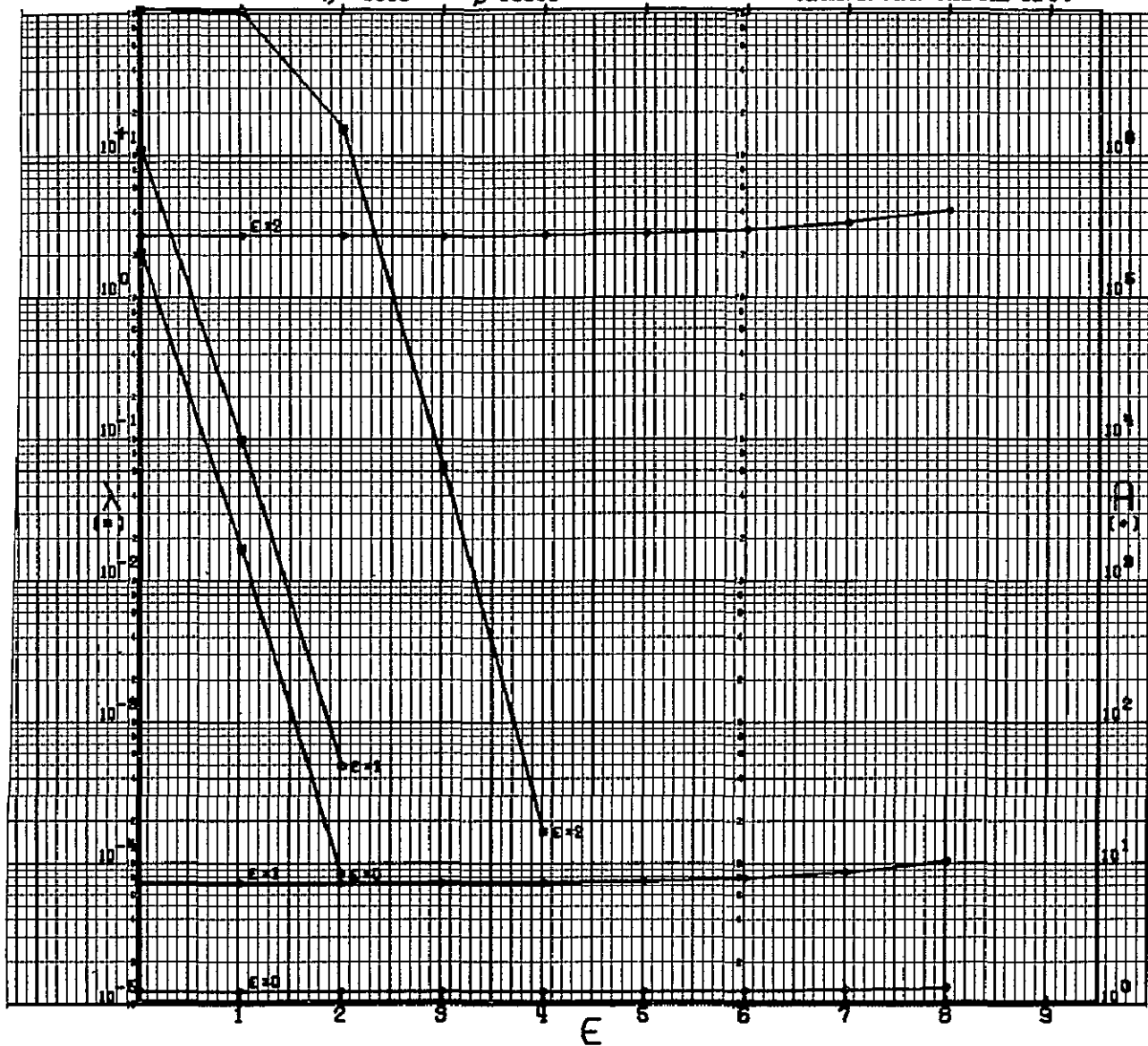
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROFS. CODE 512, GFC)



A-320

X

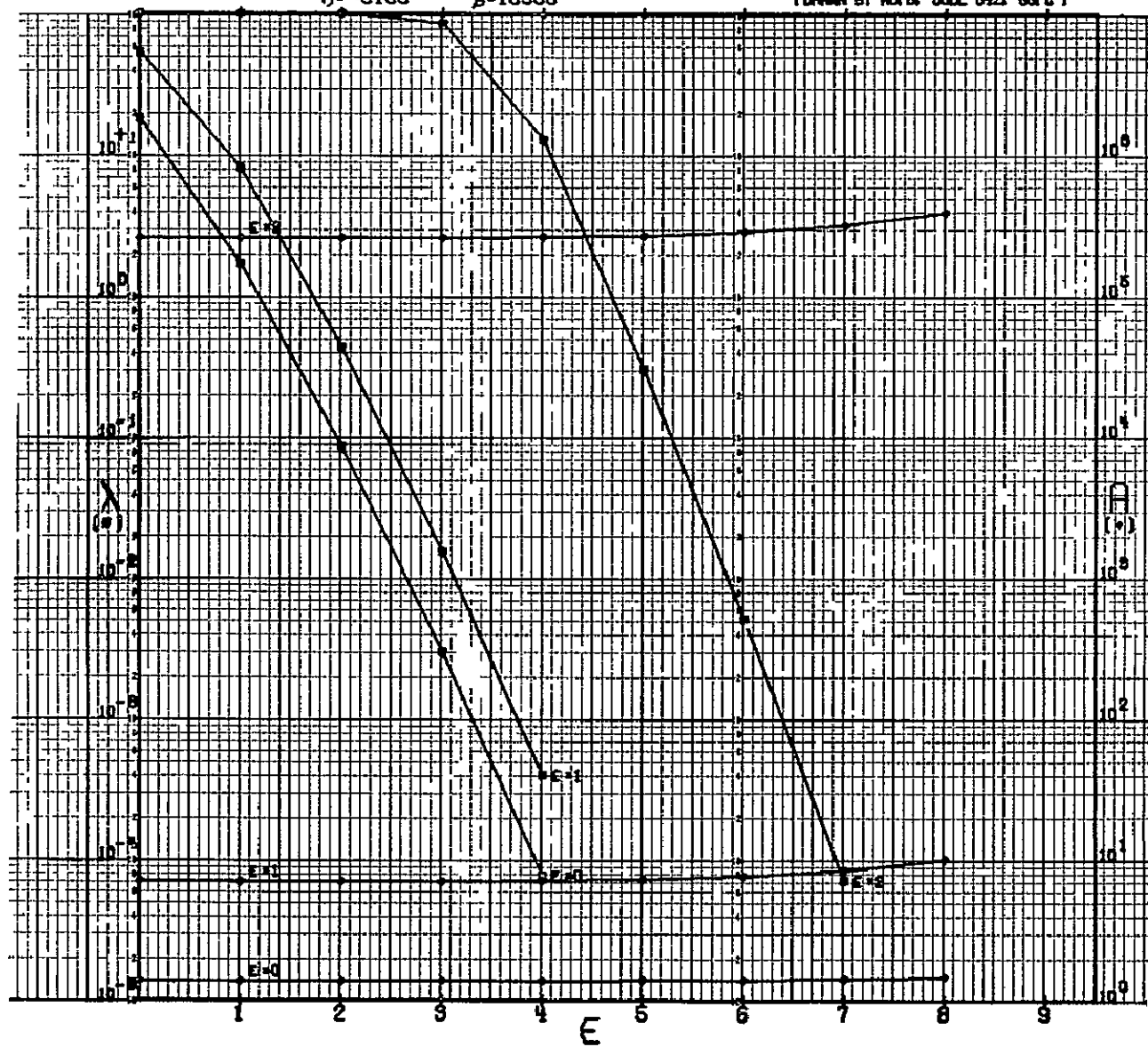
N=17

CODE 11110011010100000
GFC STANDARD

$\eta = 0.100$

$\beta = 10000$

(OBTAIN BY RSPB. CODE 542. GFC)



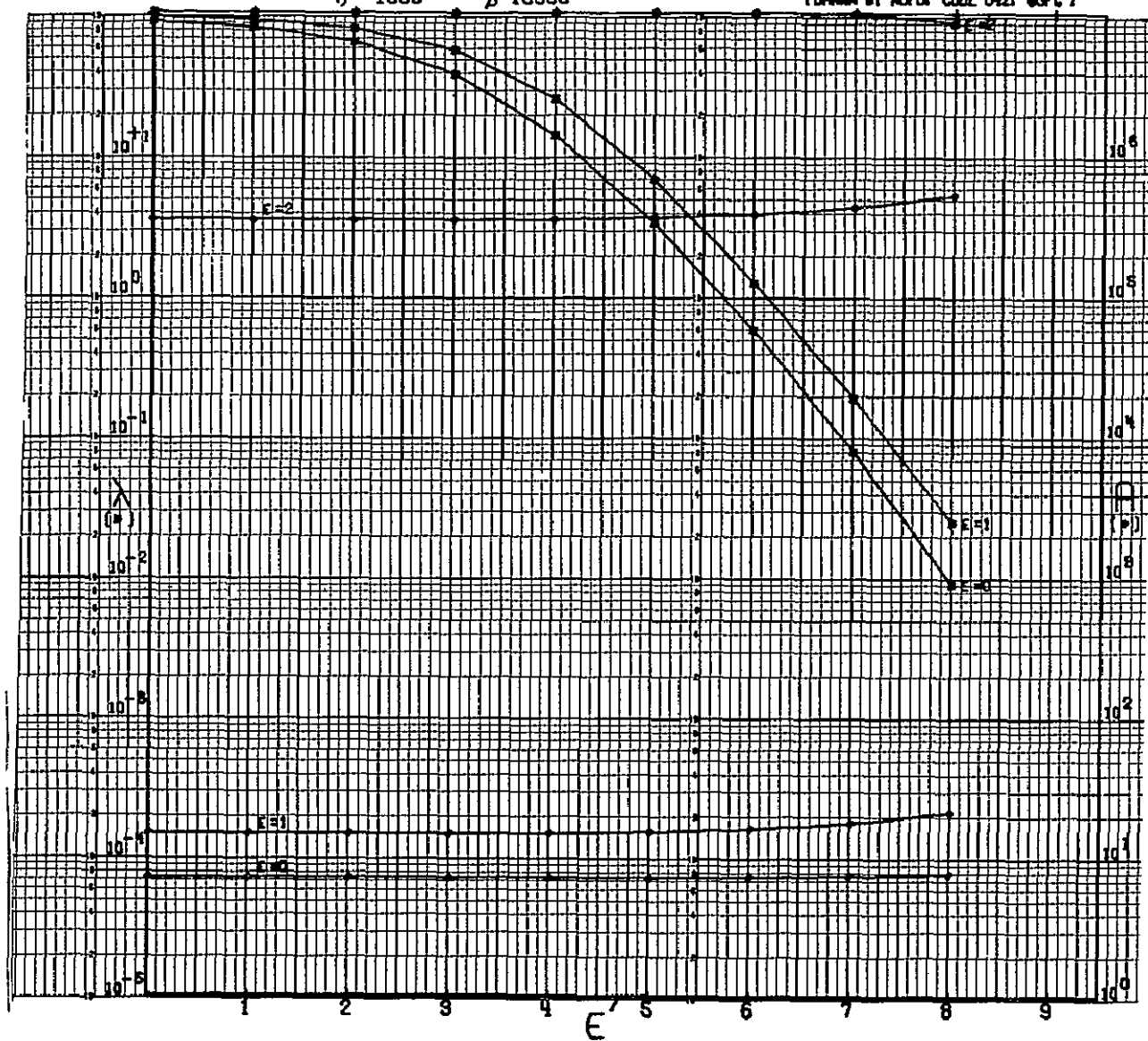
N=17

CODE 111100110101000000
GFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPL CODE 512, GFC)



N=17

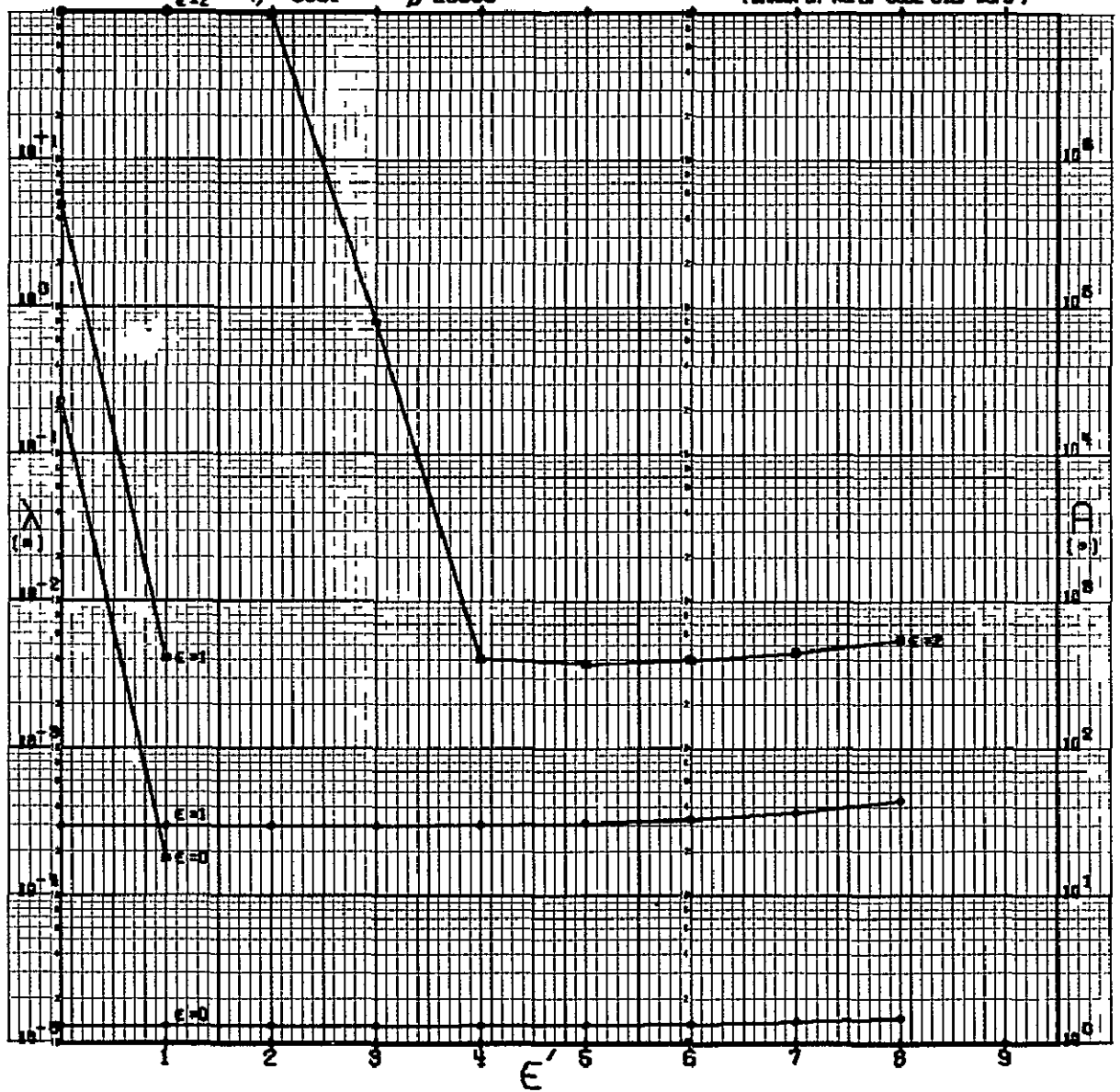
CODE 11110011010100000

GSFC STANDARD

$\epsilon = 2$ $\eta = -0001$

$\beta = 20000$

(DRAWN BY ACPG, CODE 512, GSFC)



N = 17

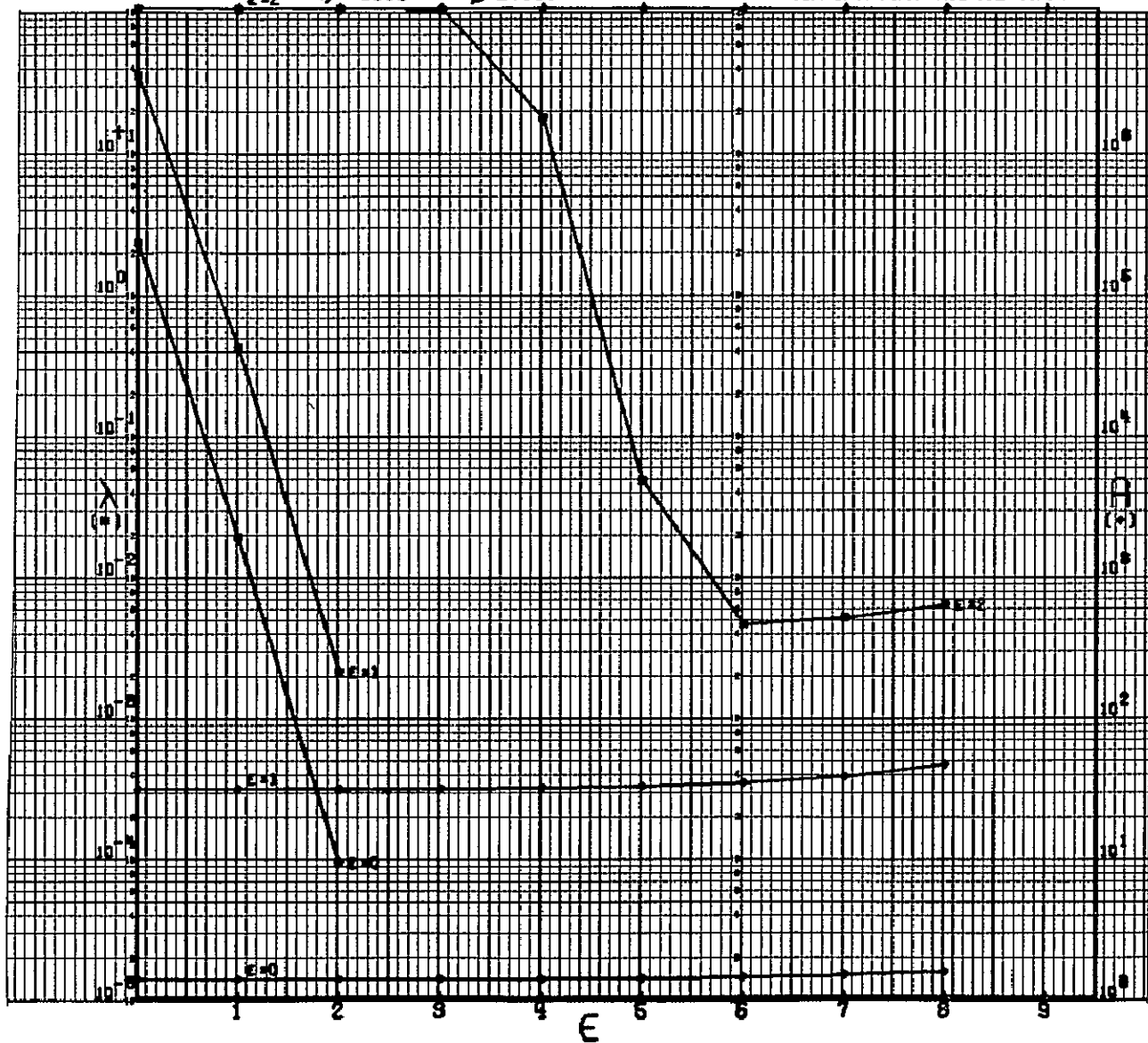
CODE 11110011010100000
GFC STANDARD

$\epsilon = 2$

$\eta = -0010$

$\beta = 20000$

(DRAWN BY NOPS, CODE 592, GFC)



N=17

CODE 11110012010100000

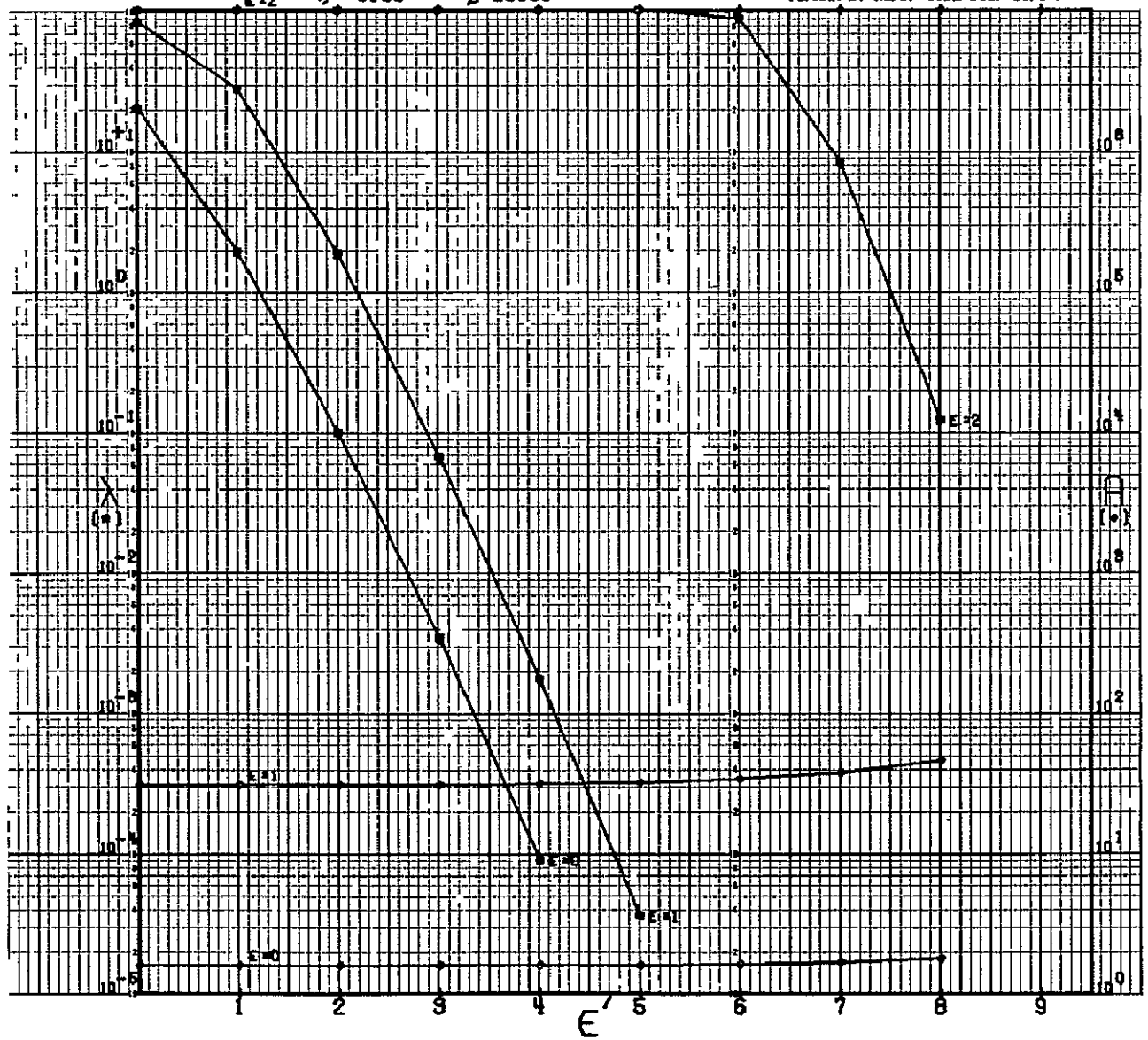
GEFC STANDARD

$\epsilon=2$

$\eta=0.100$

$\beta=20000$

(DRAWN BY ADPA. CODE 592. GEFC)



N = 17

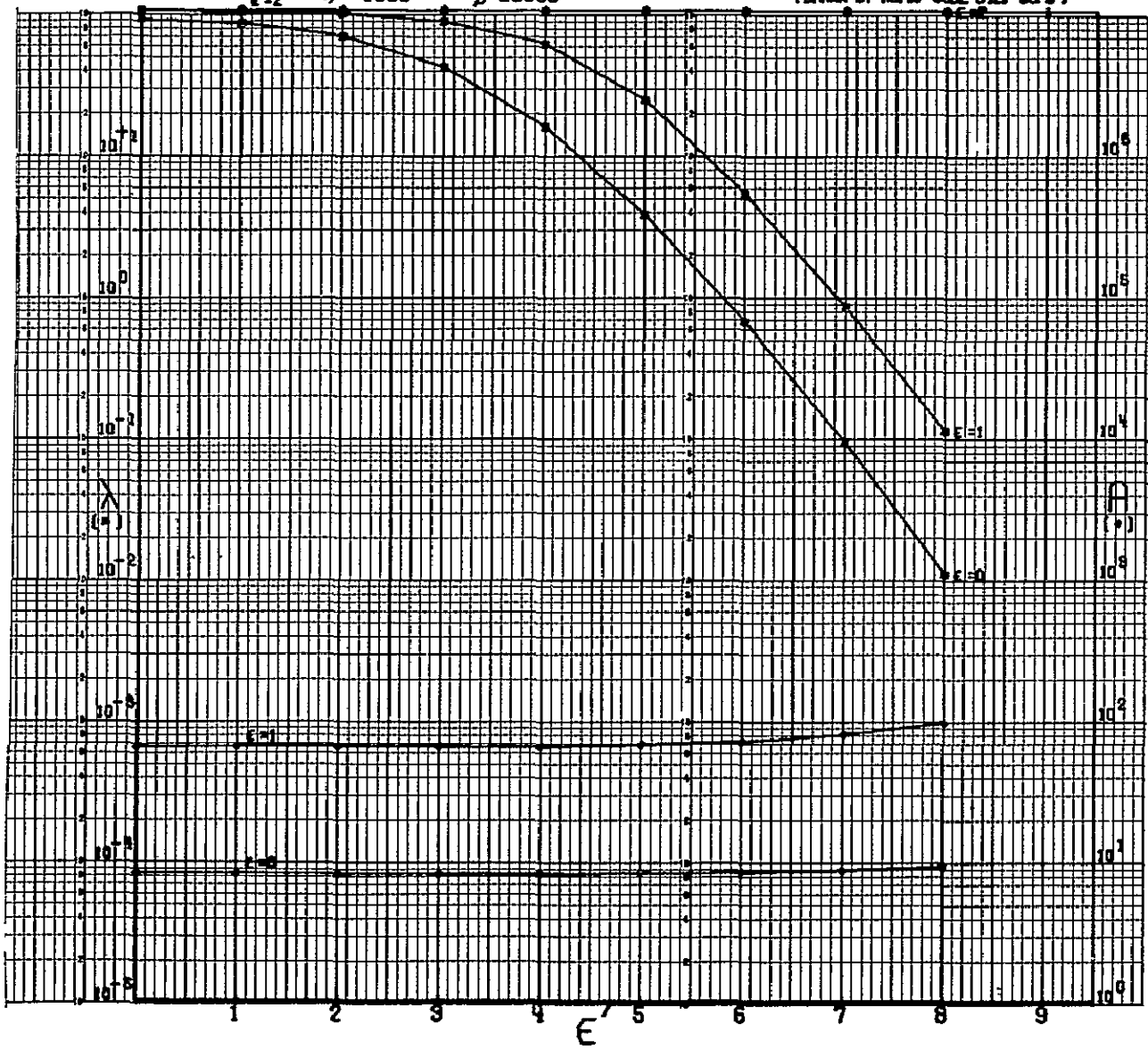
CODE 11110011010100000
GSFC STANDARD

$\epsilon = 2$

$\eta = 1000$

$\beta = 20000$

(DRAWN BY NAFIL CODE 592, GSFC)



$$N = 18$$

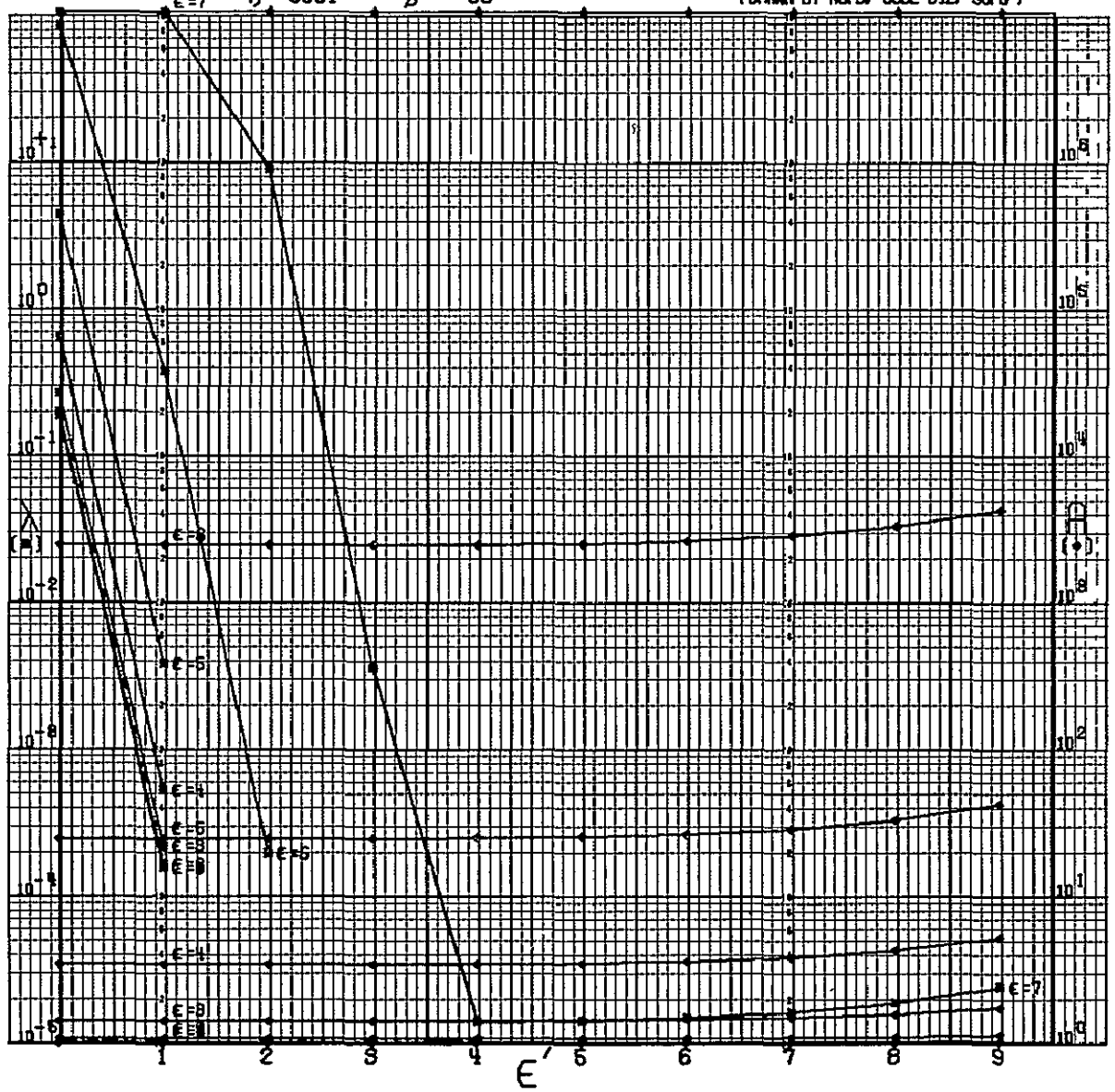
N=18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 7$ $\eta = 0.0001$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 18

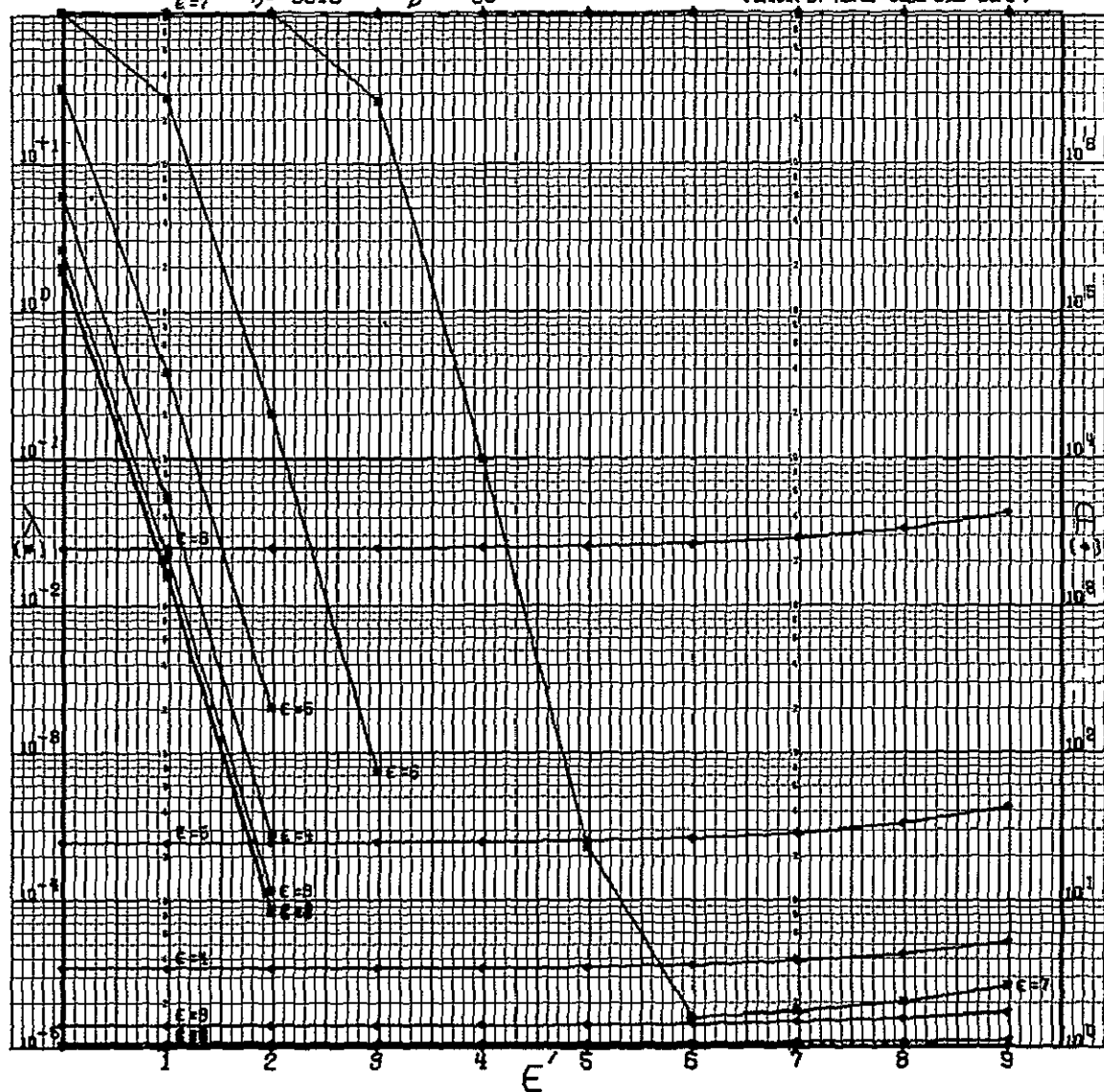
CODE 111100110101000000

GSFC STANDARD

$\epsilon = 7$ $b = .0010$

$\beta = 50$

(DRAWN BY ROFBL CODE 642 GSFC)



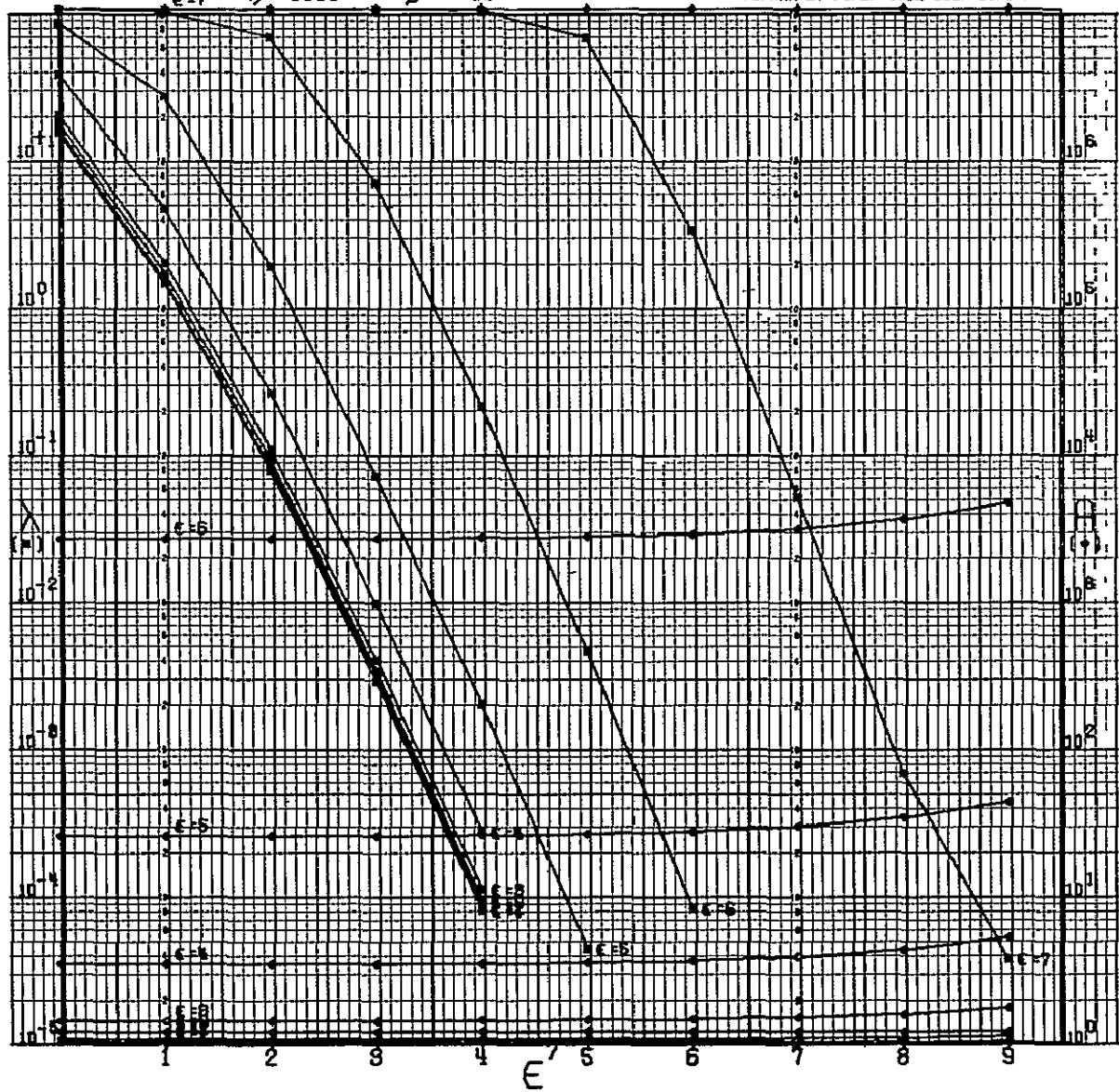
N=18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 7$ $\eta = 0.100$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



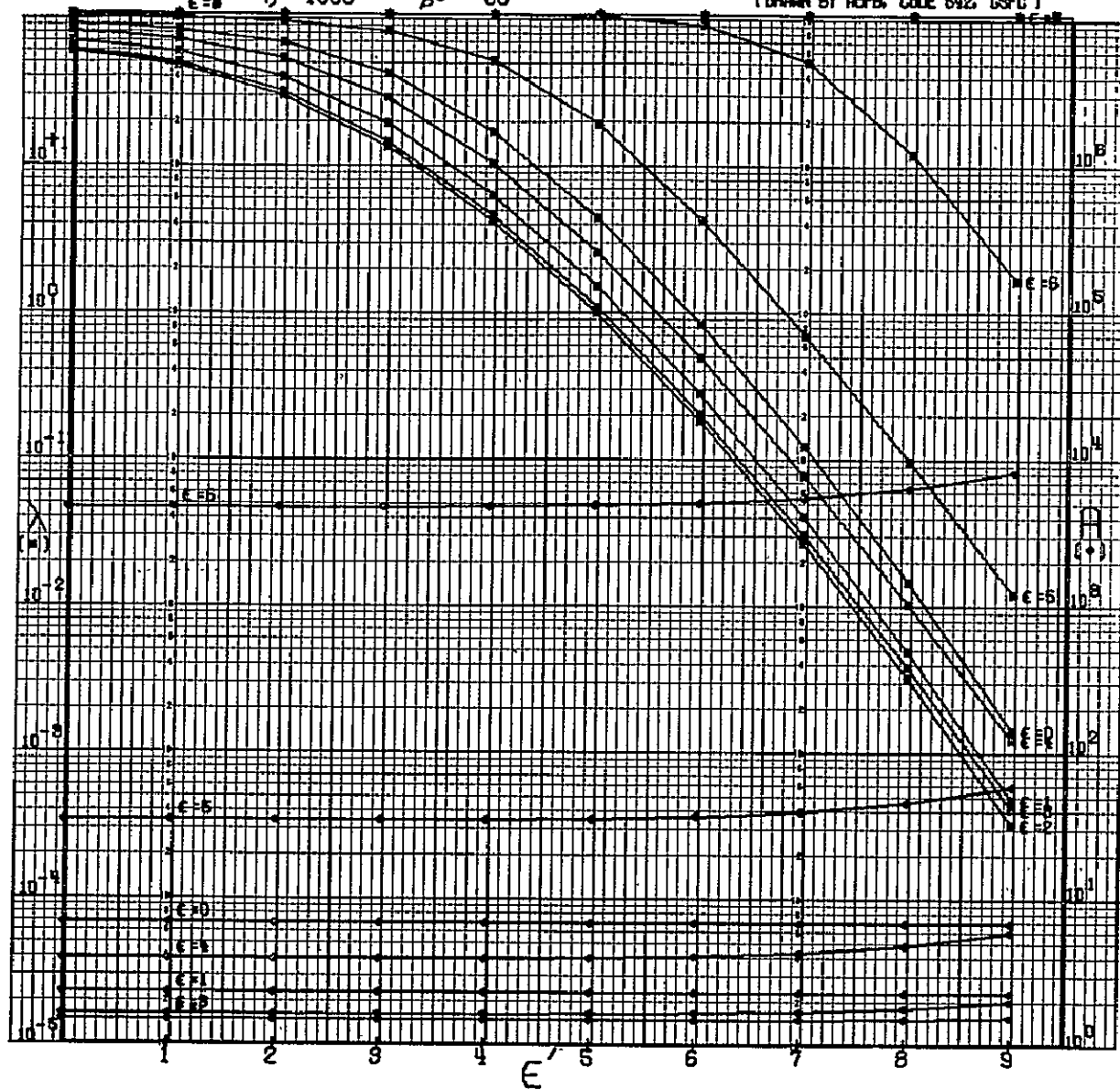
N=18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 8$ $\eta = 1000$

$\beta = 50$

(DRAWN BY RCPB, CODE 542, GSFC)



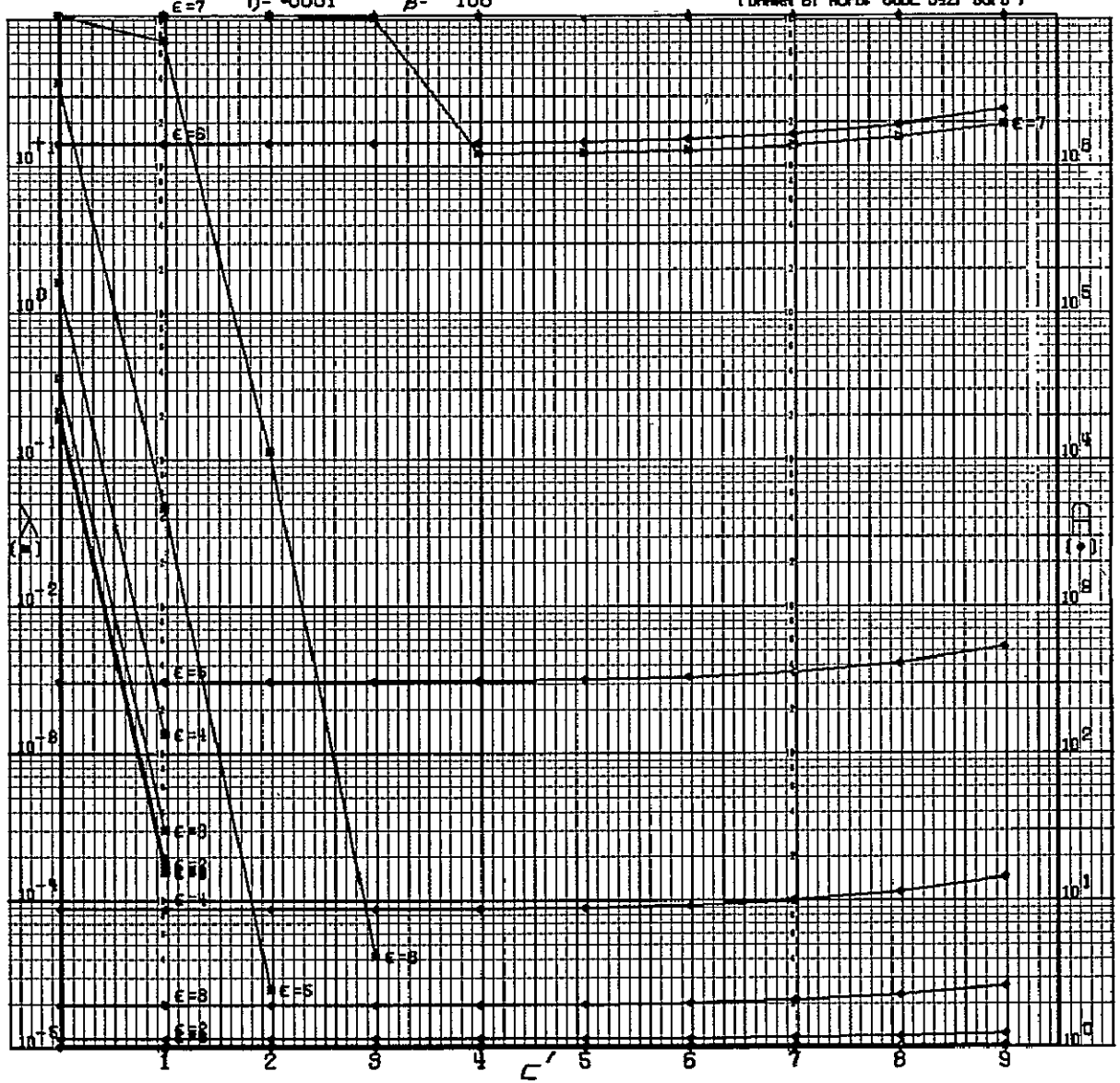
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 0.001$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



N=18

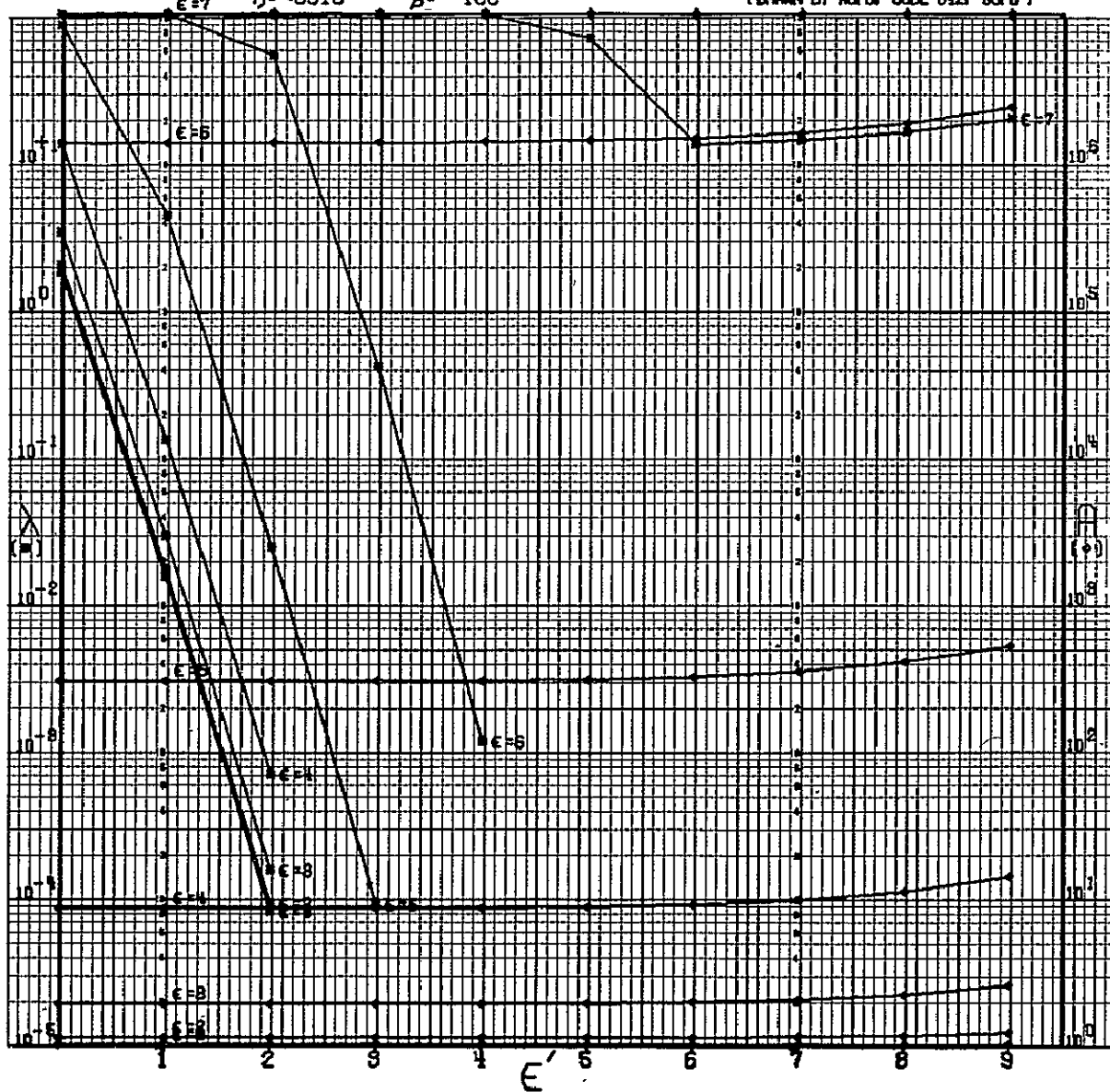
CODE 111100110101000000

GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY RSPB, CODE 642, GSFC)



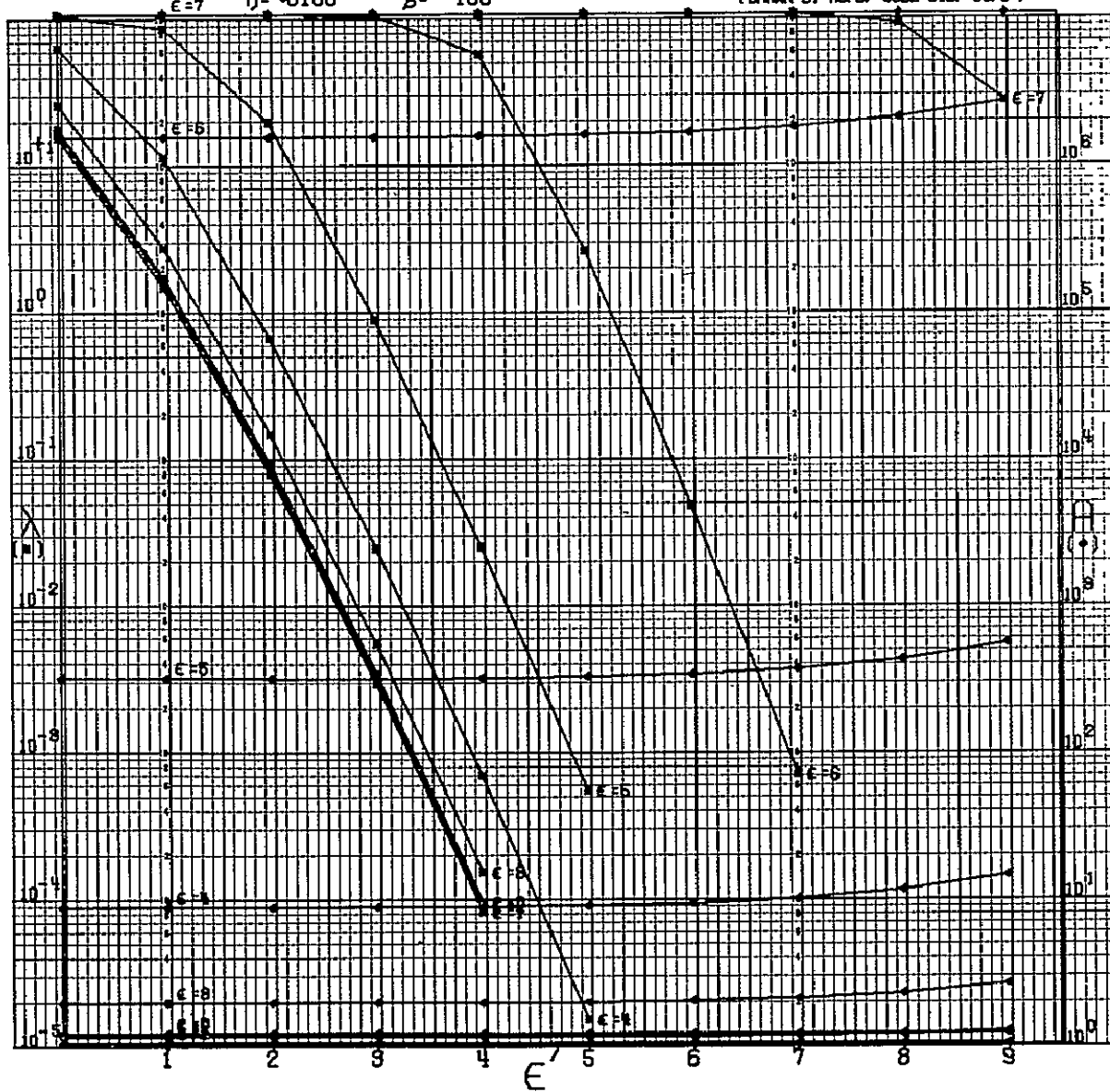
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



N=18

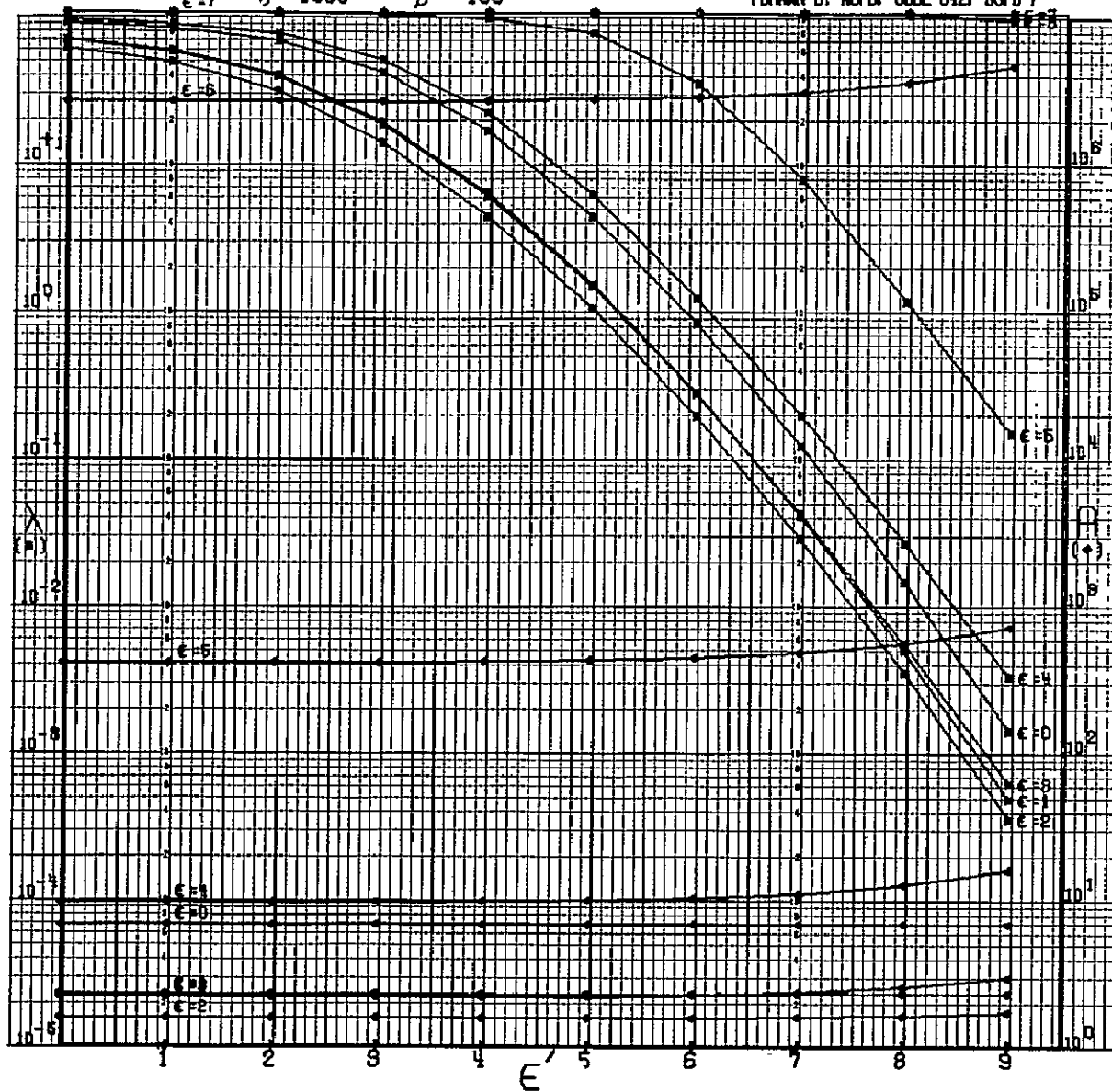
CODE 111100110101000000

GSFC STANDARD

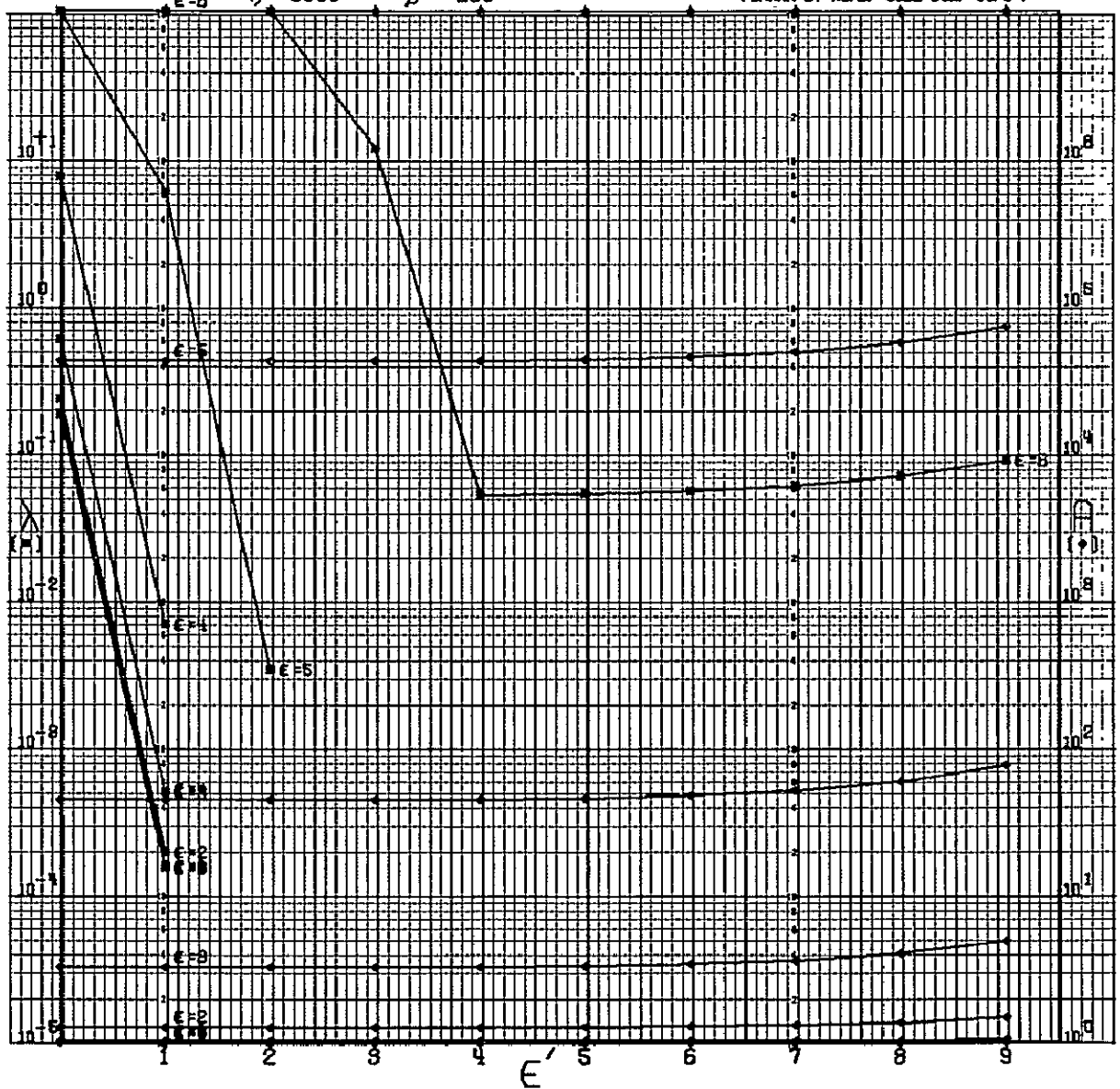
$\eta = 1000$

$\beta = 100$

(DRAWN BY ROFB, CODE 542, GSFC)



N=18 CODE 111100130101000000
 GSFC STANDARD $\eta = .0001$ $\beta = 200$ (DRAWN BY ROPB, CODE 642, GSFC)



N=18

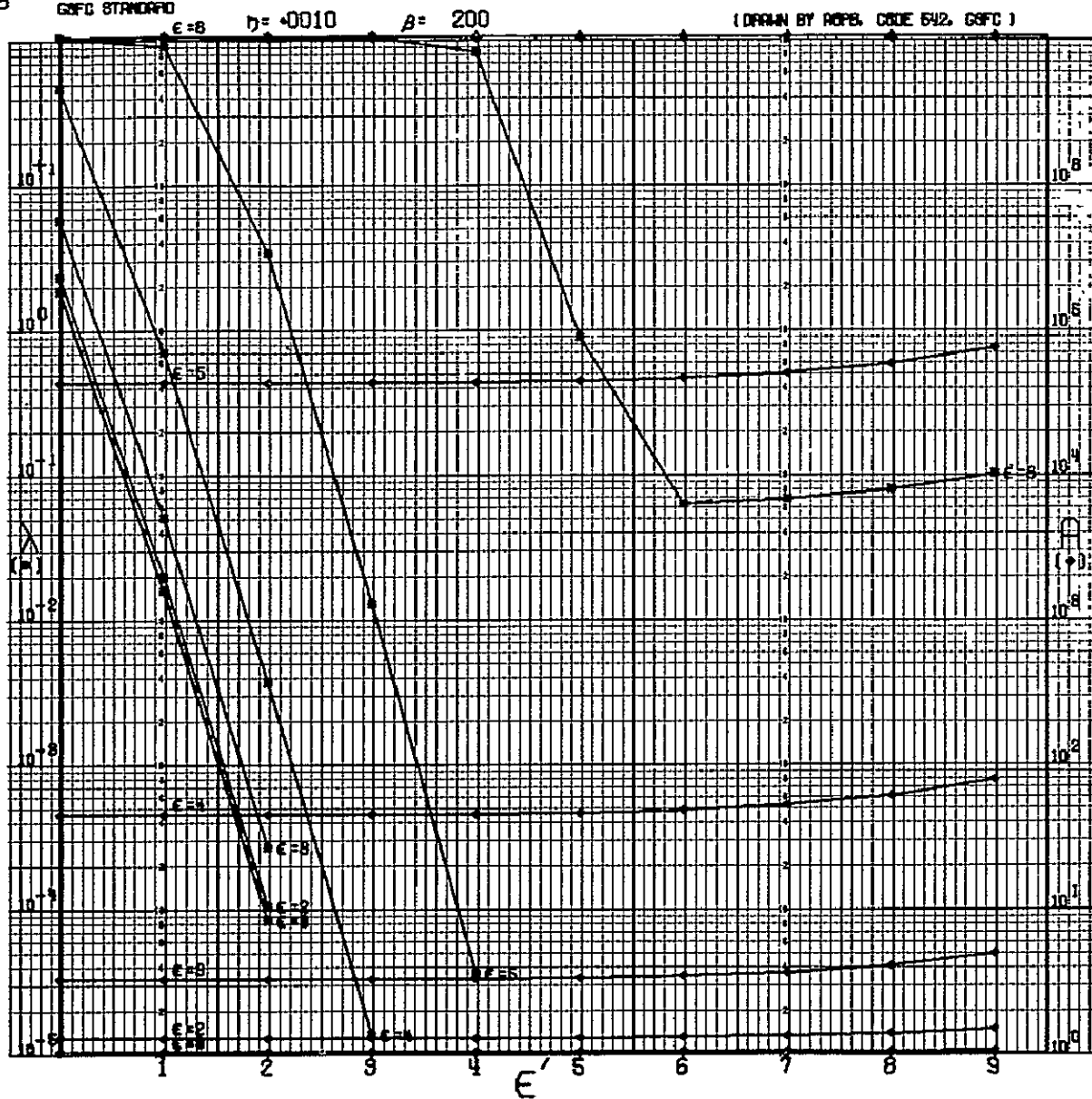
CODE 111100110101000000

GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 18

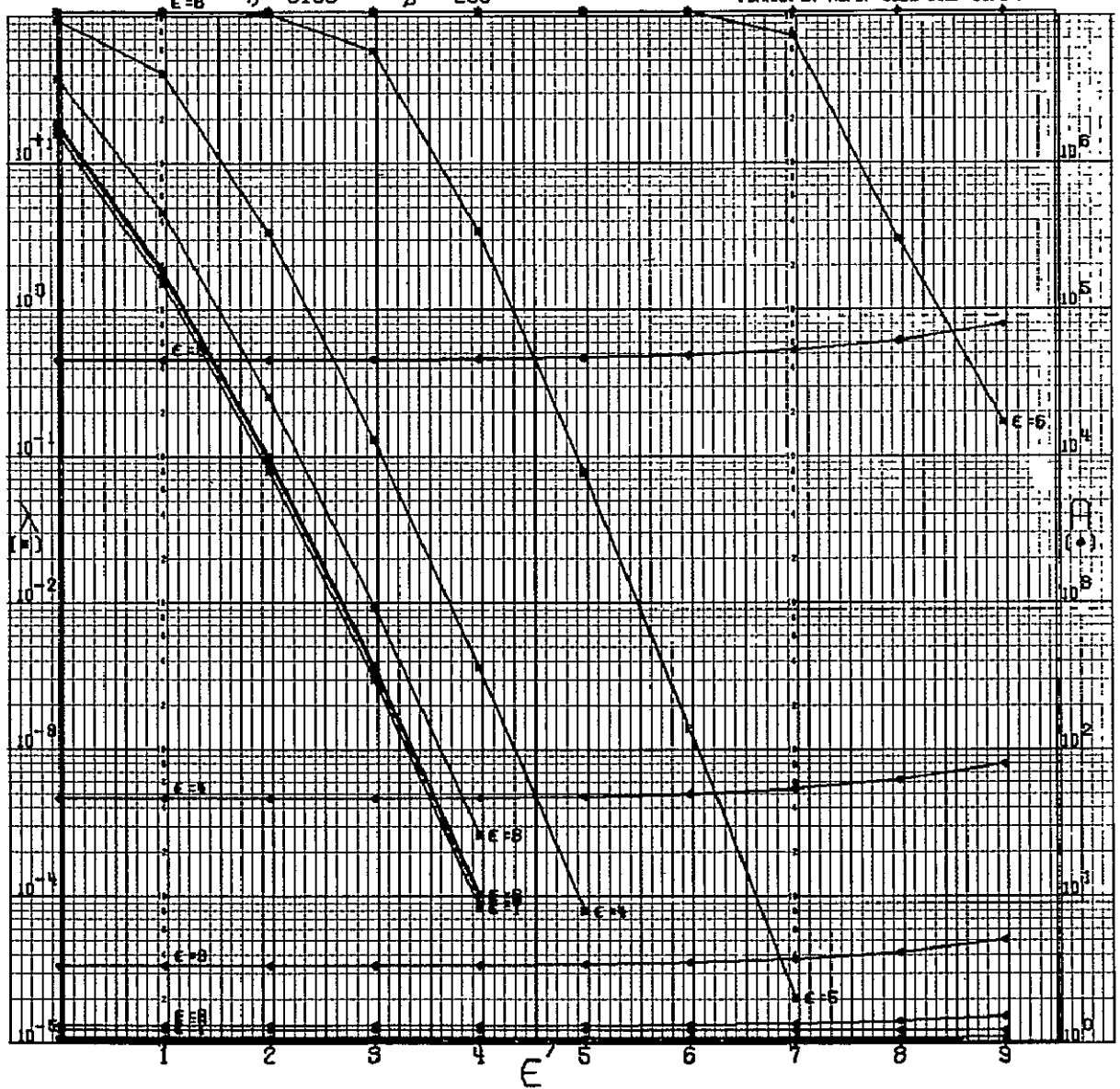
CODE 111100110101000000

GSFC STANDARD

$\eta = 0.100$

$\beta = 200$

(DRAWN BY AOPB, CODE 542, GSFC)



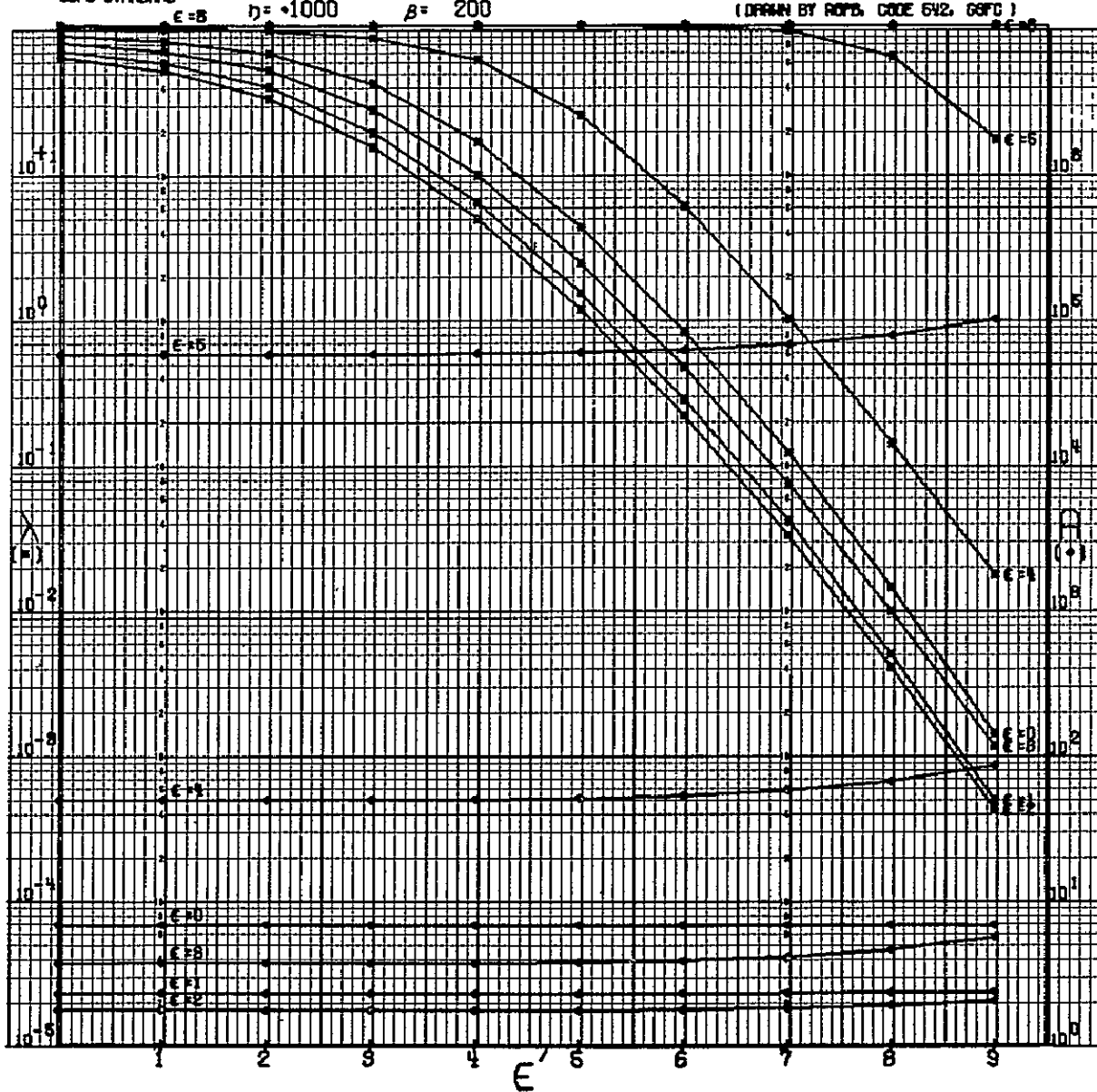
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROMS, CODE 642, GSFC)



N=18

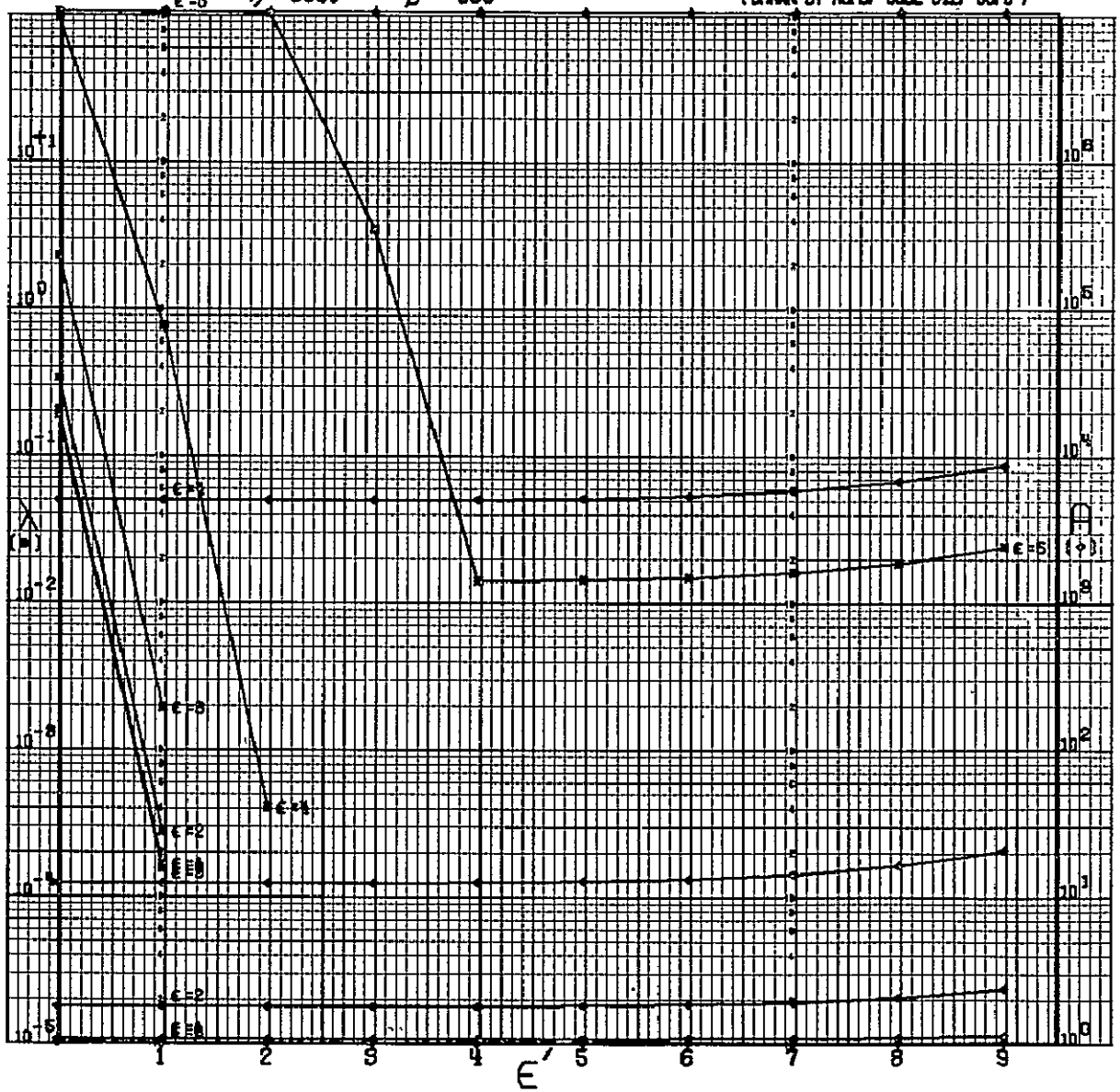
CODE 111100110101000000

GSFC STANDARD

$\epsilon = 5$ $\eta = .0001$

$\beta = 500$

(DRAWN BY ACPB CODE 542 GSFC)



N = 18

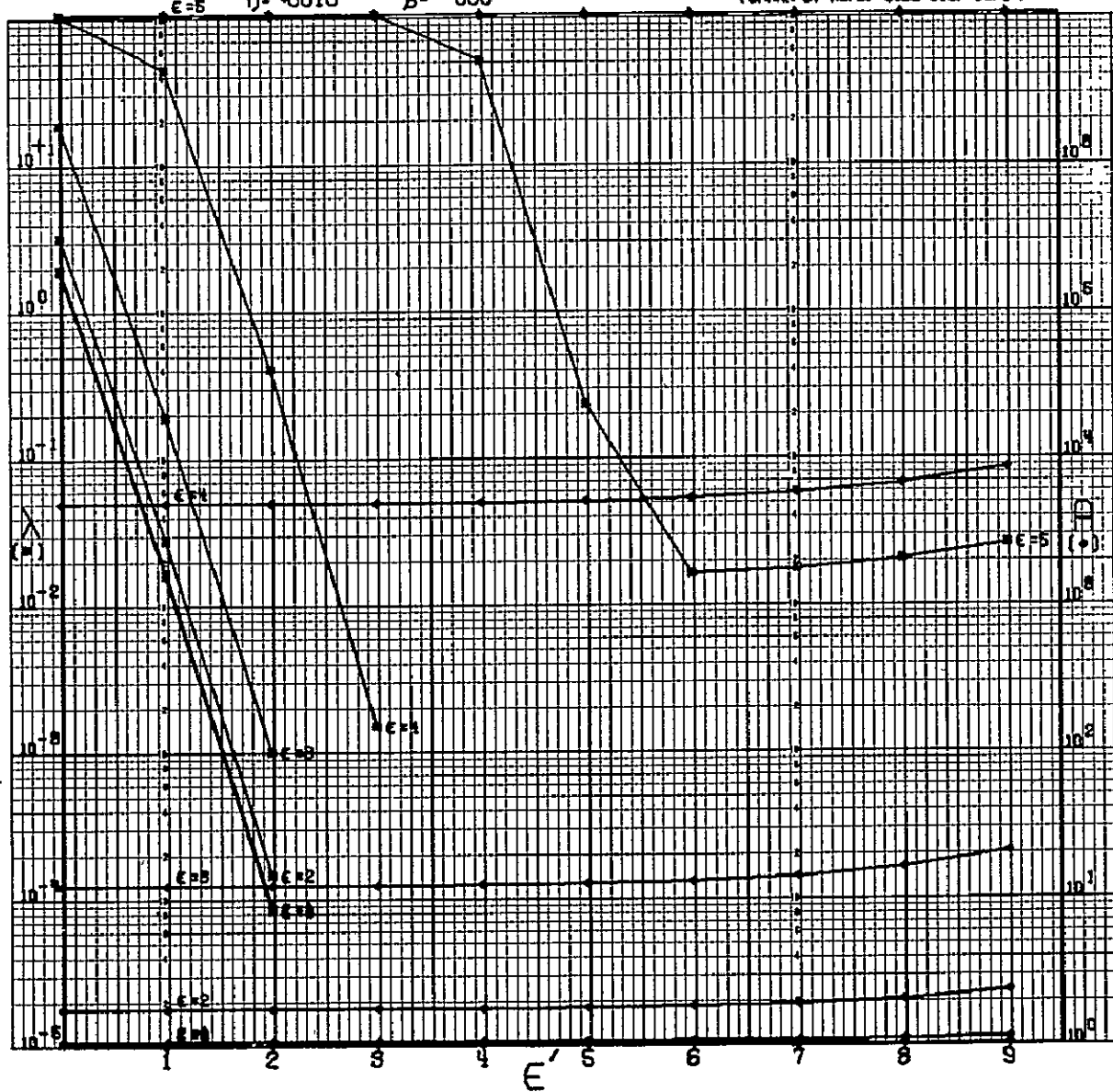
CODE 111100110101000000

GSFC STANDARD

$\epsilon = 5$ $\eta = +0010$

$\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



N=18

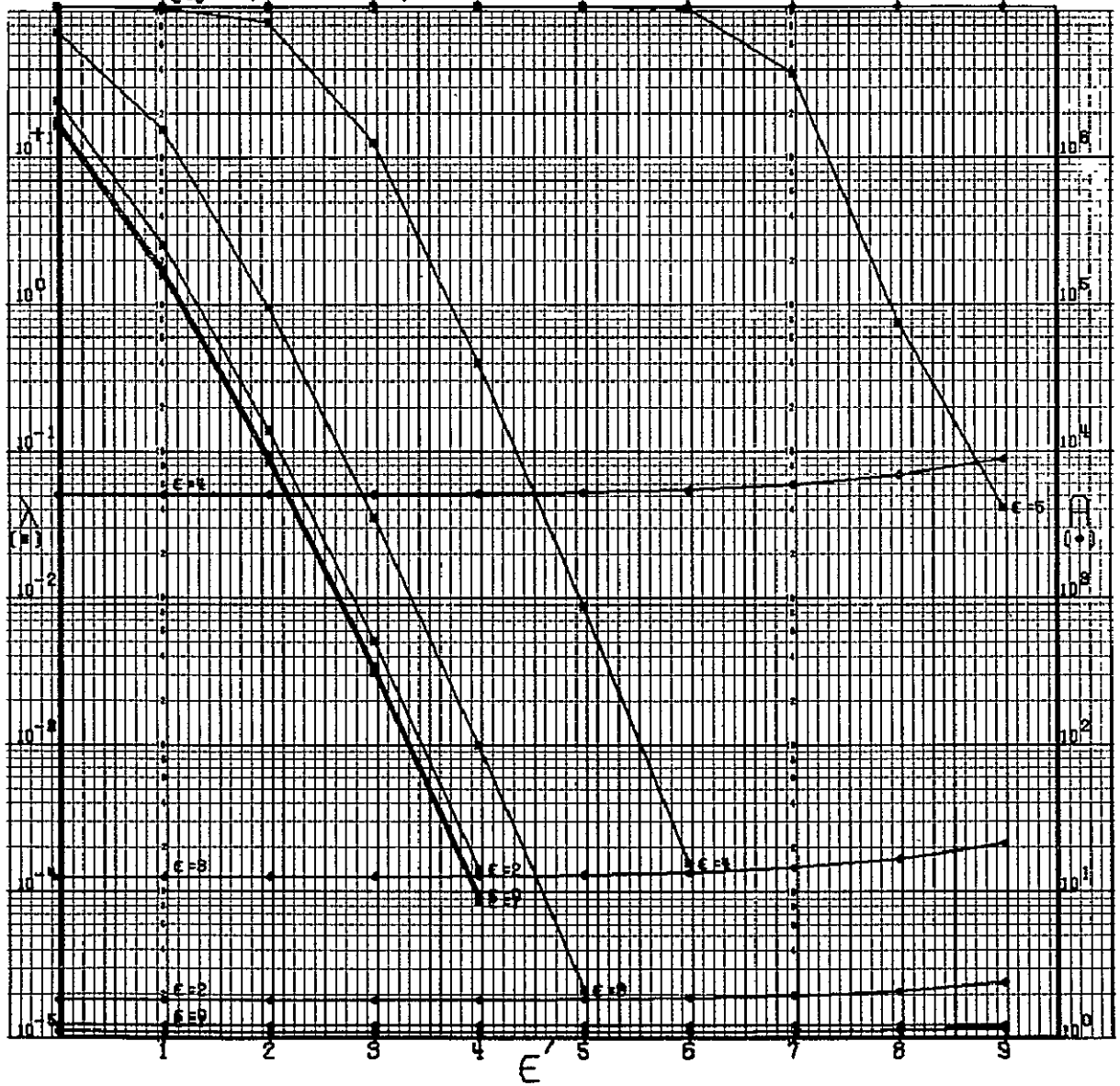
CODE 111100110101000000

GSFC STANDARD

$\eta = .0100$

$\beta = 500$

(DRAWN BY ADP. CODE 542, GSFC)



N=18

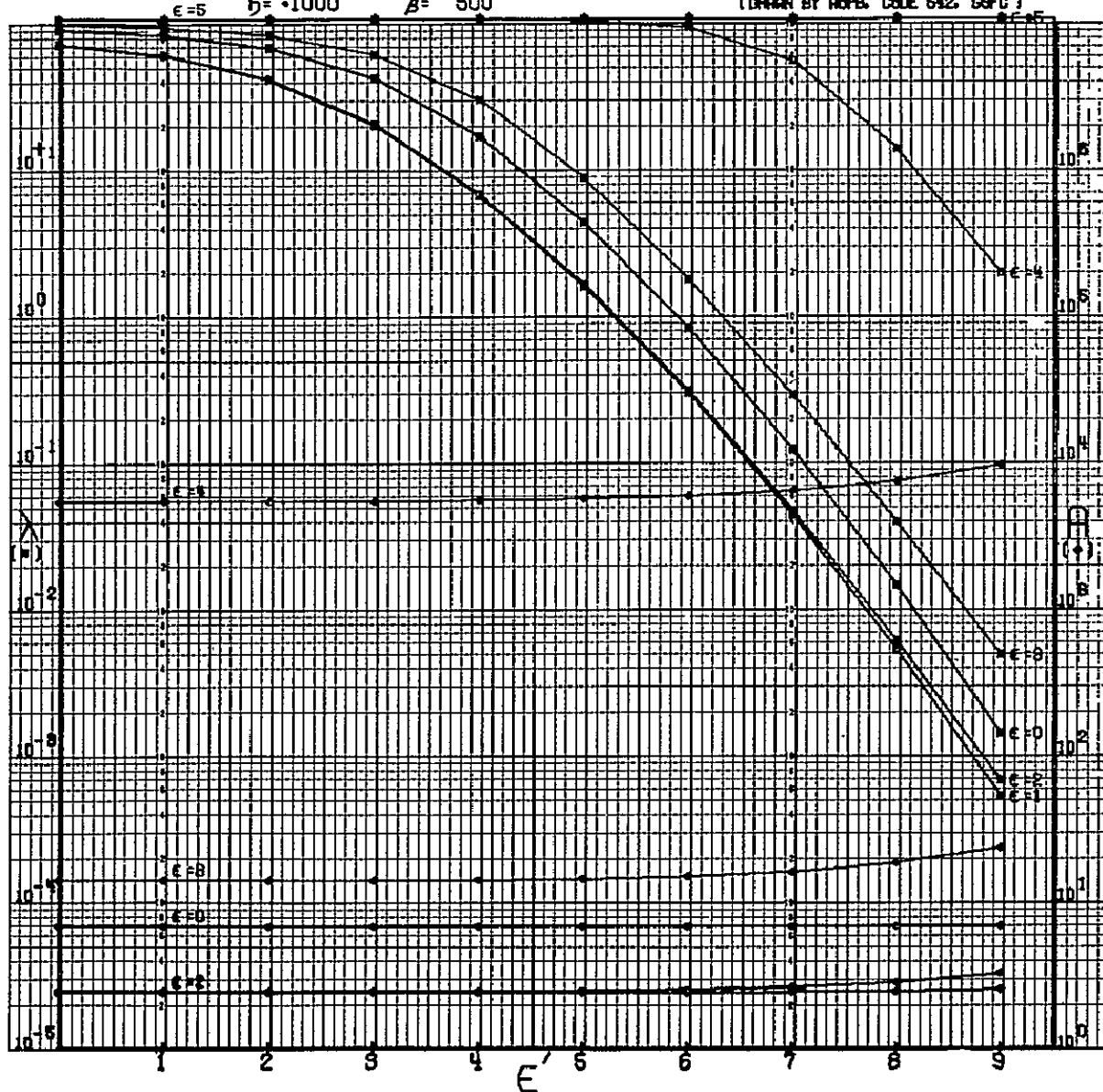
CODE 111100110101000000

GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ROPEL CODE 642, GSFC)



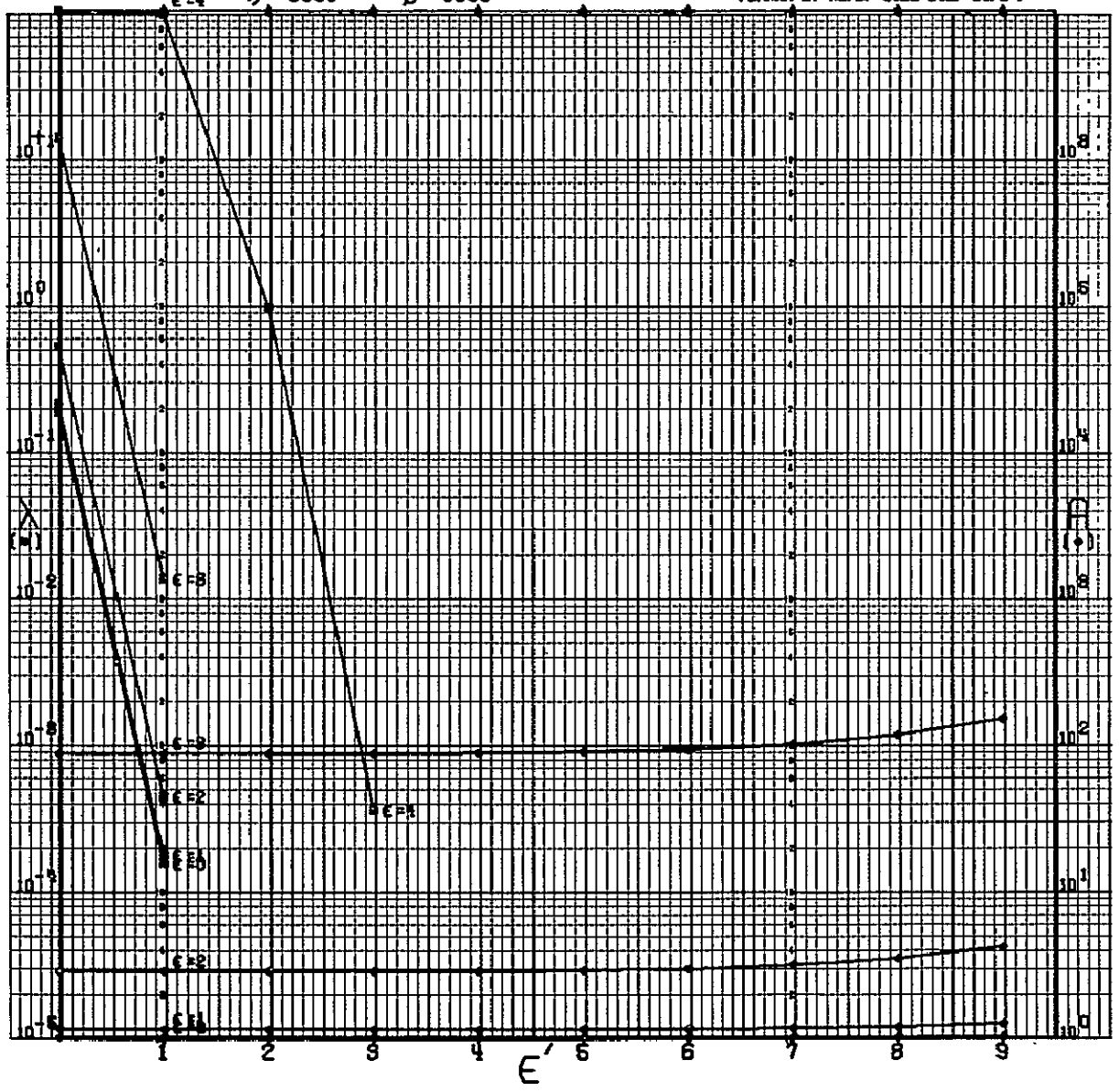
N = 18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 4$ $\eta = 0.001$

$\beta = 1000$

(DRAWN BY ACPB, CODE 542, GSFC)



N=18

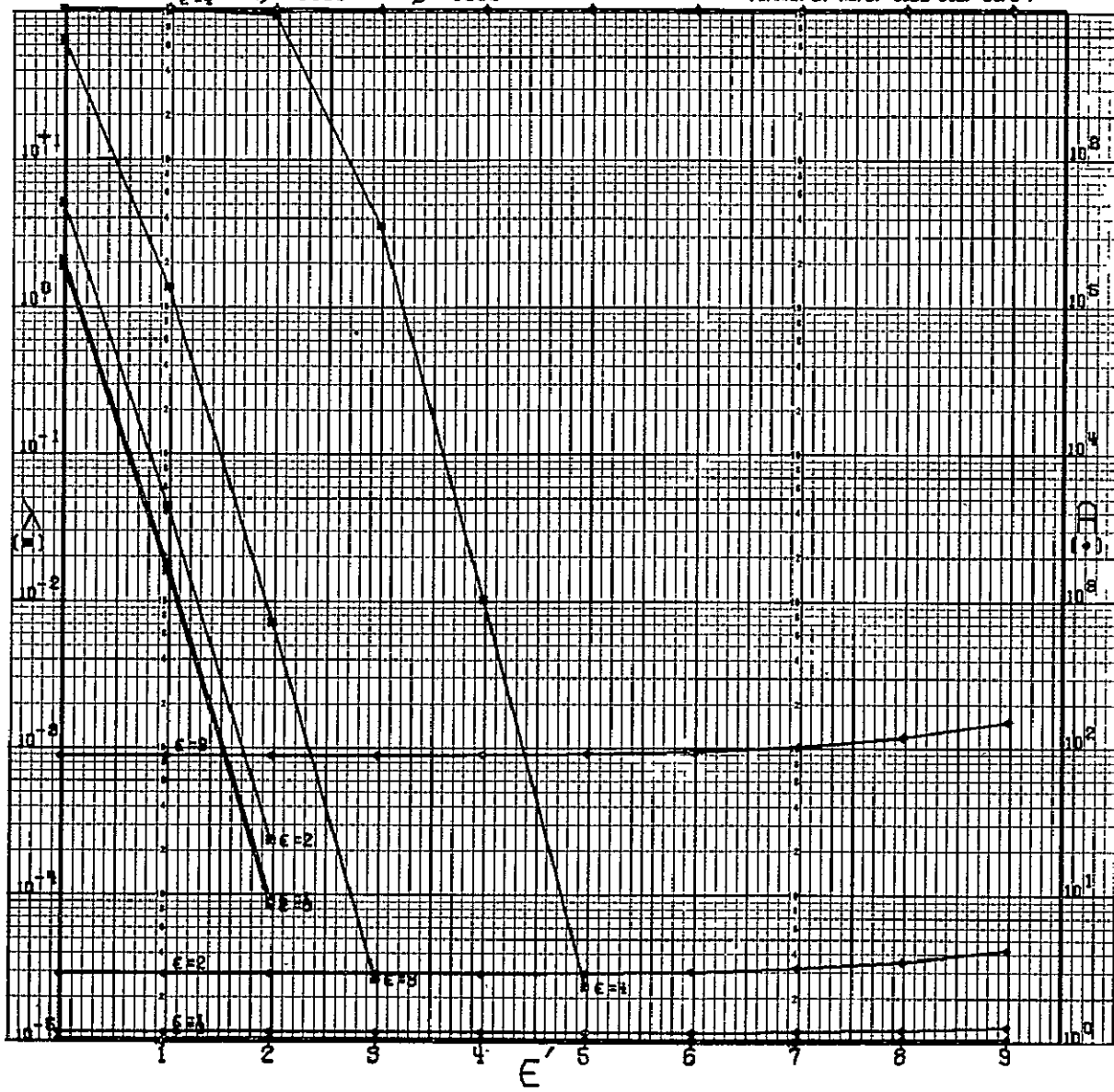
CODE 111100110101000000
GSFC STANDARD

$\epsilon = 4$

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



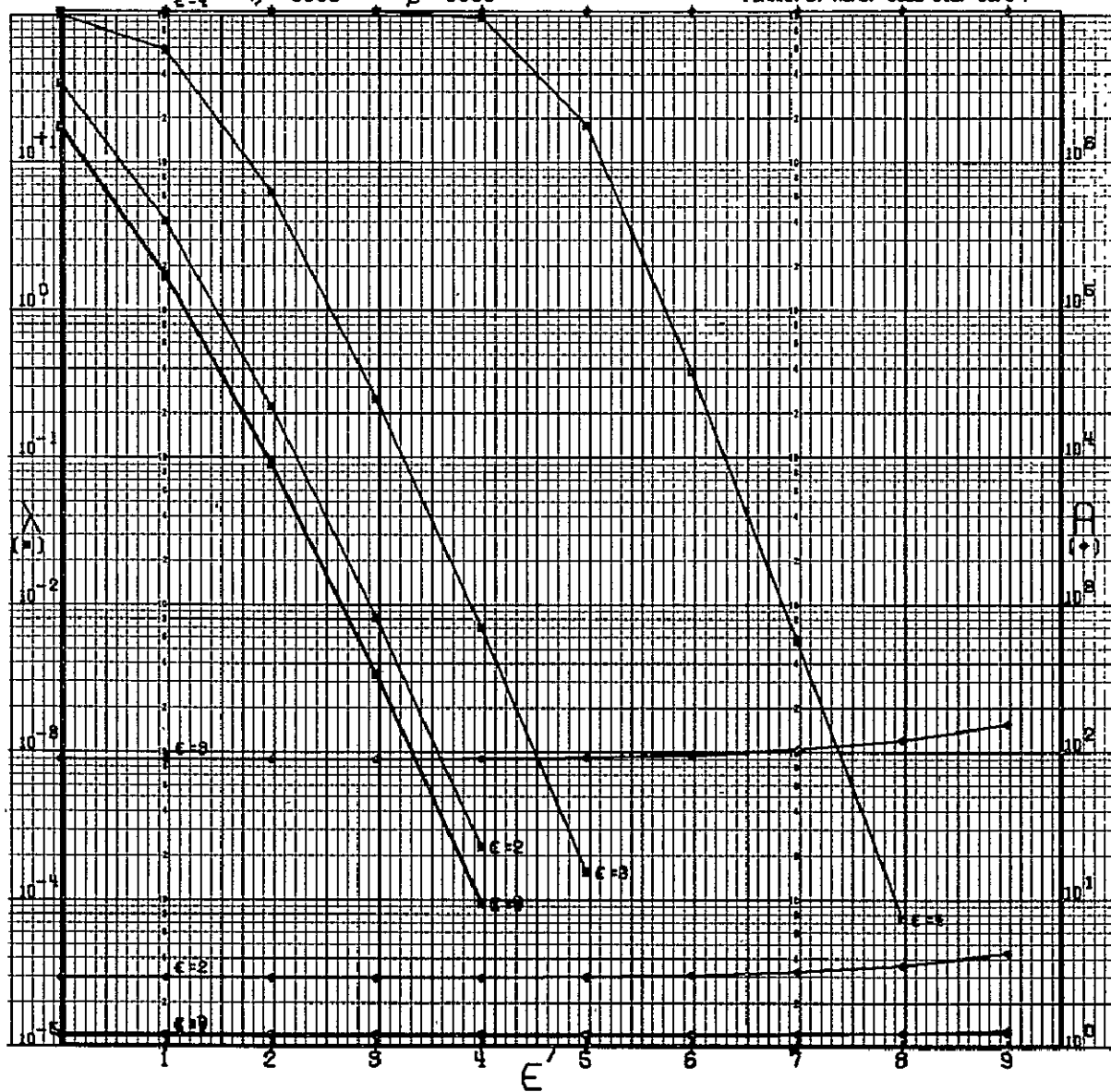
N = 18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 4$ $\eta = -0100$

$\beta = 1000$

(DRAWN BY AOPB, CODE 542, GSFC)



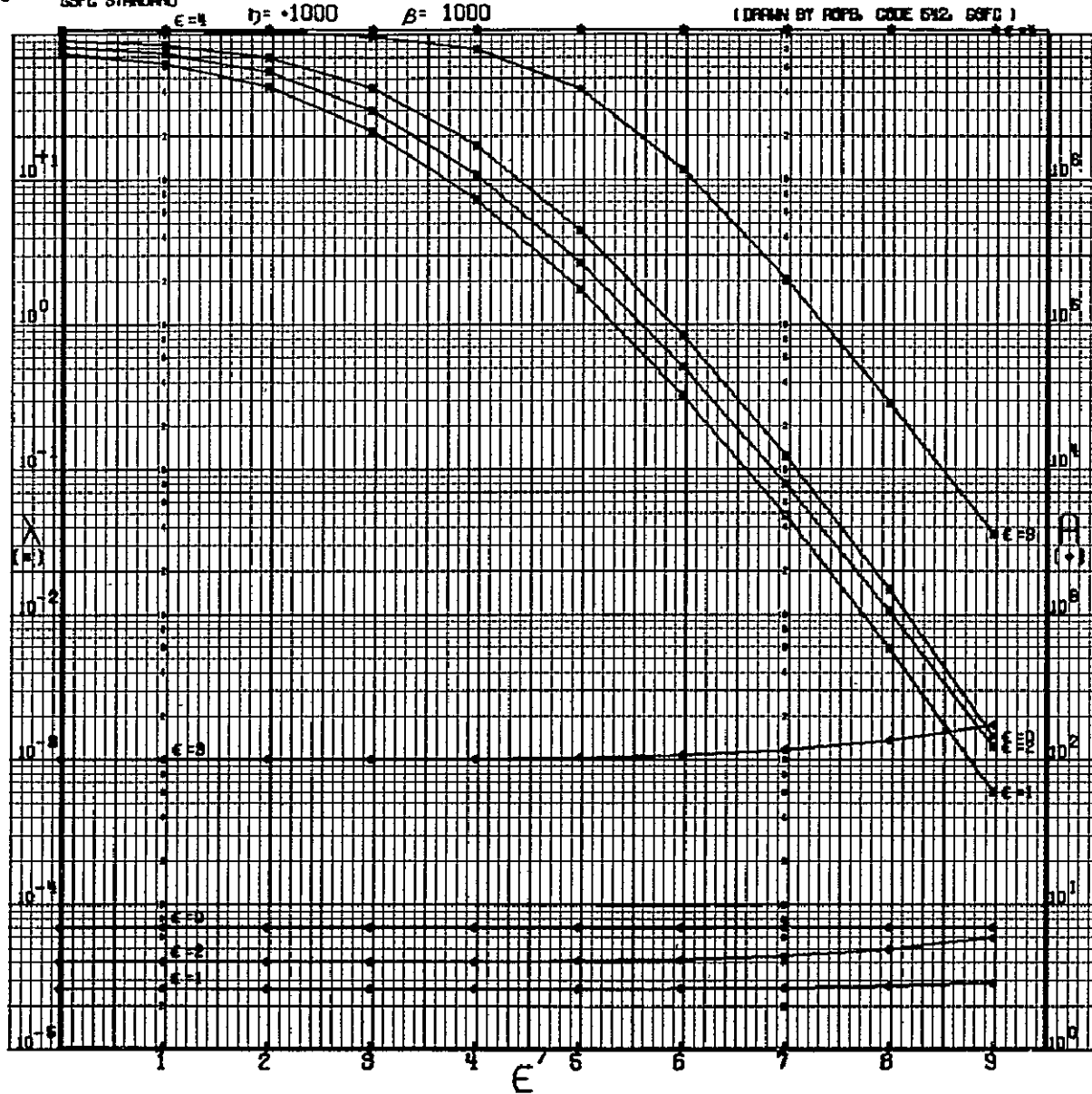
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 612, GSFC)



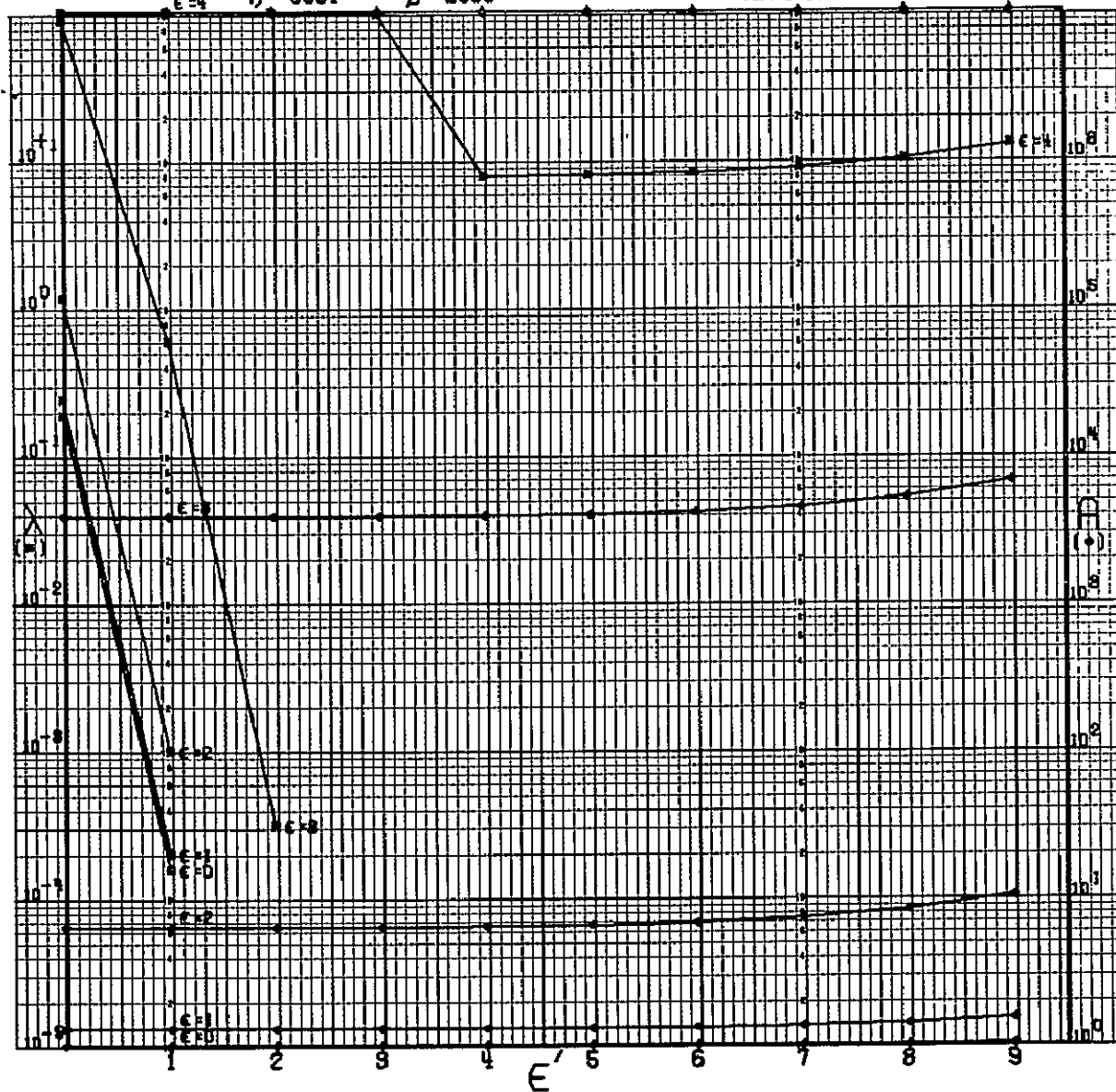
N=18

CODE 111100110101000000
GFC STANDARD

$\epsilon = 4$ $\eta = .0001$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GFC)



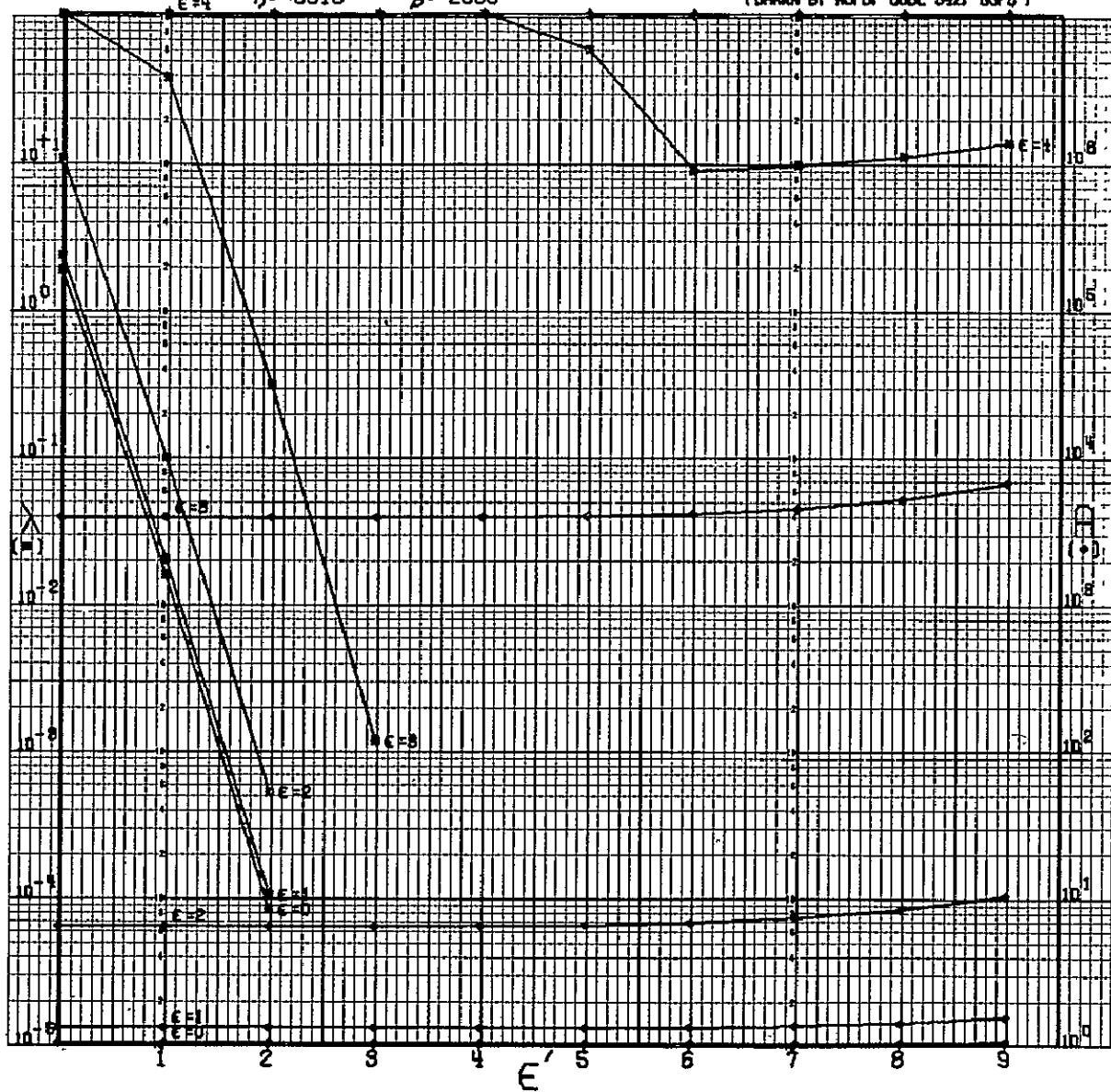
N = 18

CODE 111100110101000000
GDFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GDFC)



N = 18

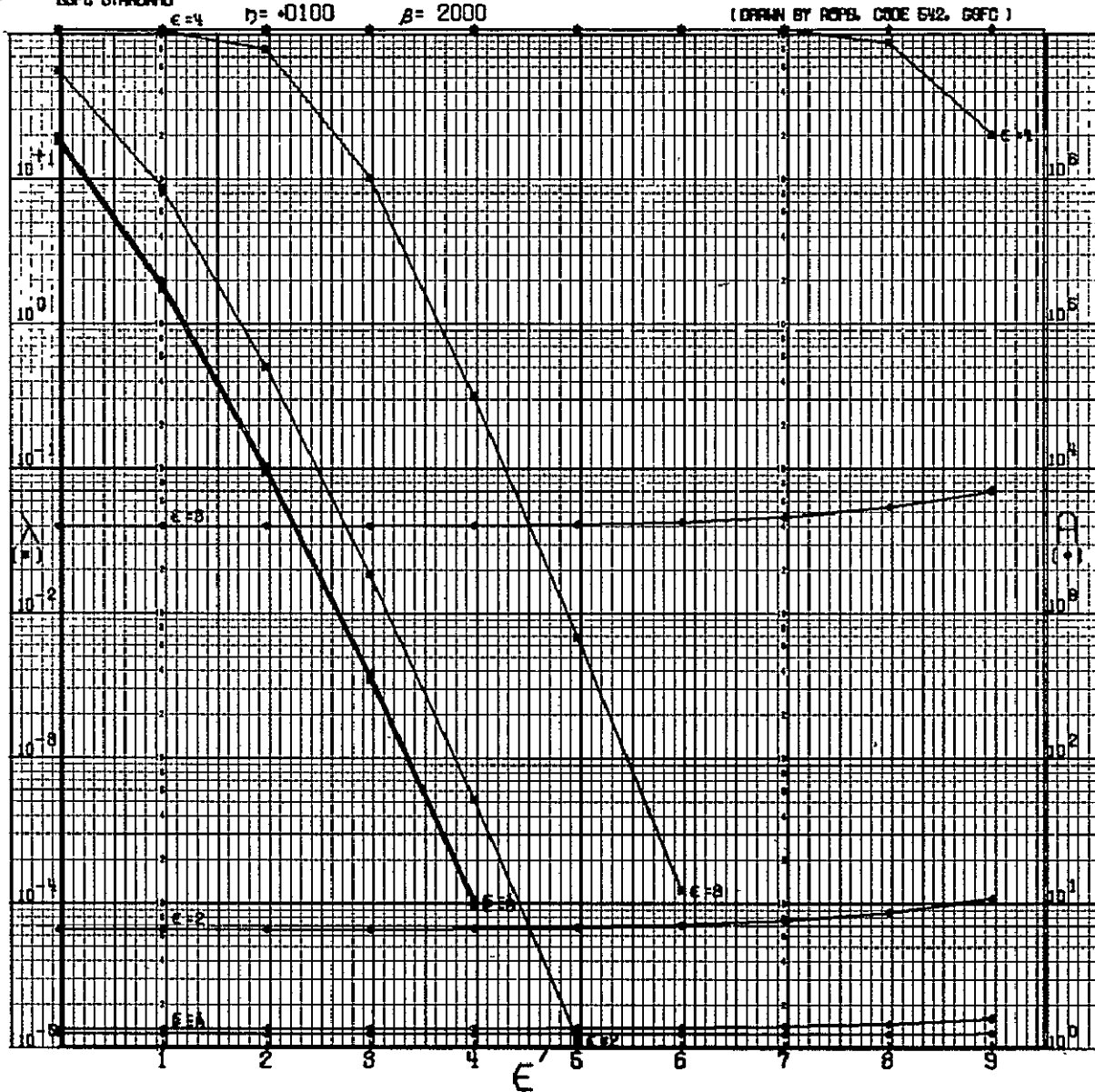
CODE 111100110101000000

GSFC STANDARD

$\eta = +0100$

$\beta = 2000$

(DRAWN BY ROPS, CODE 542, GSFC)



N=18

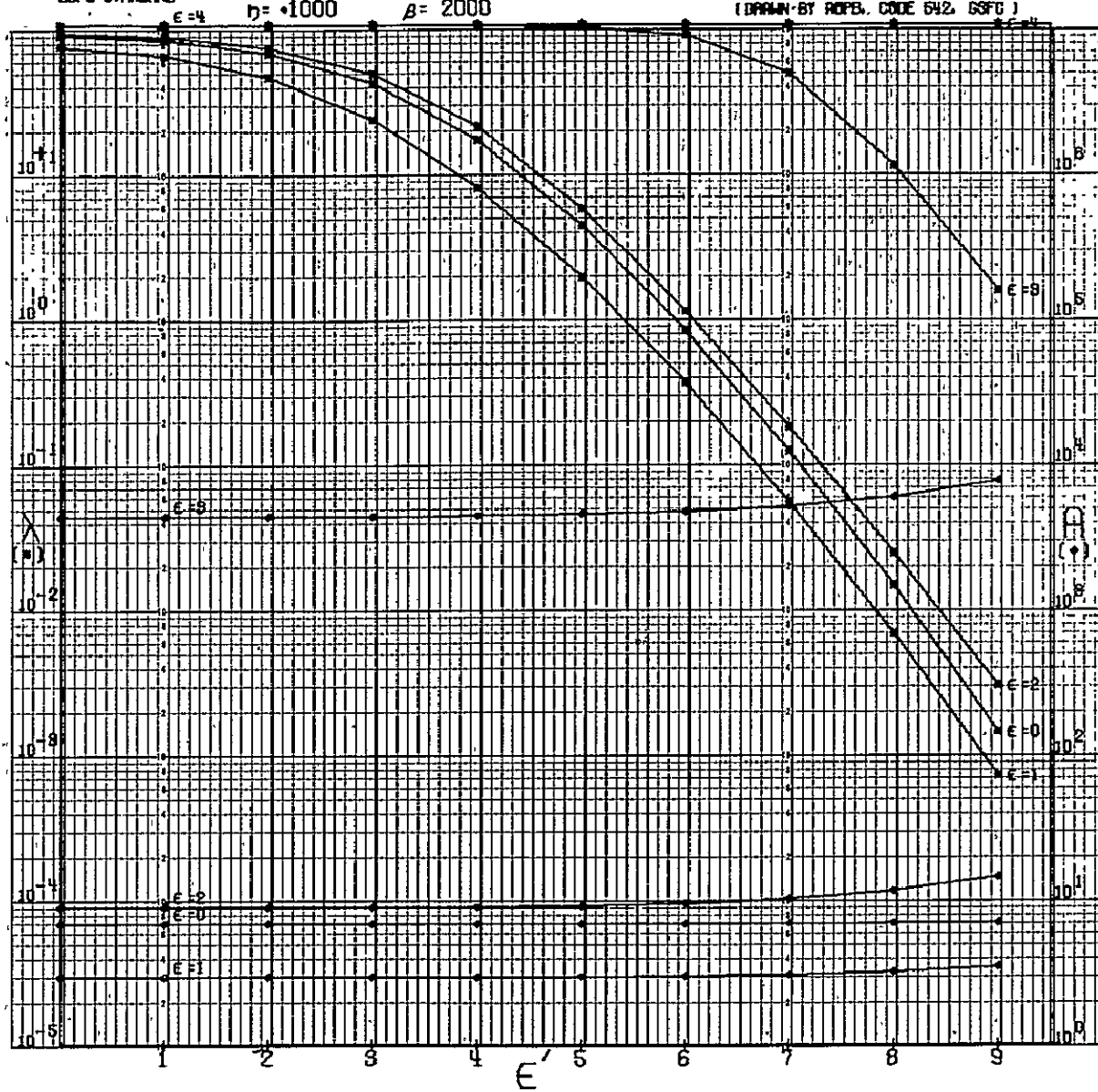
CODE 111100110101000000

GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ADPBL CODE 642 GSFC)



A-350

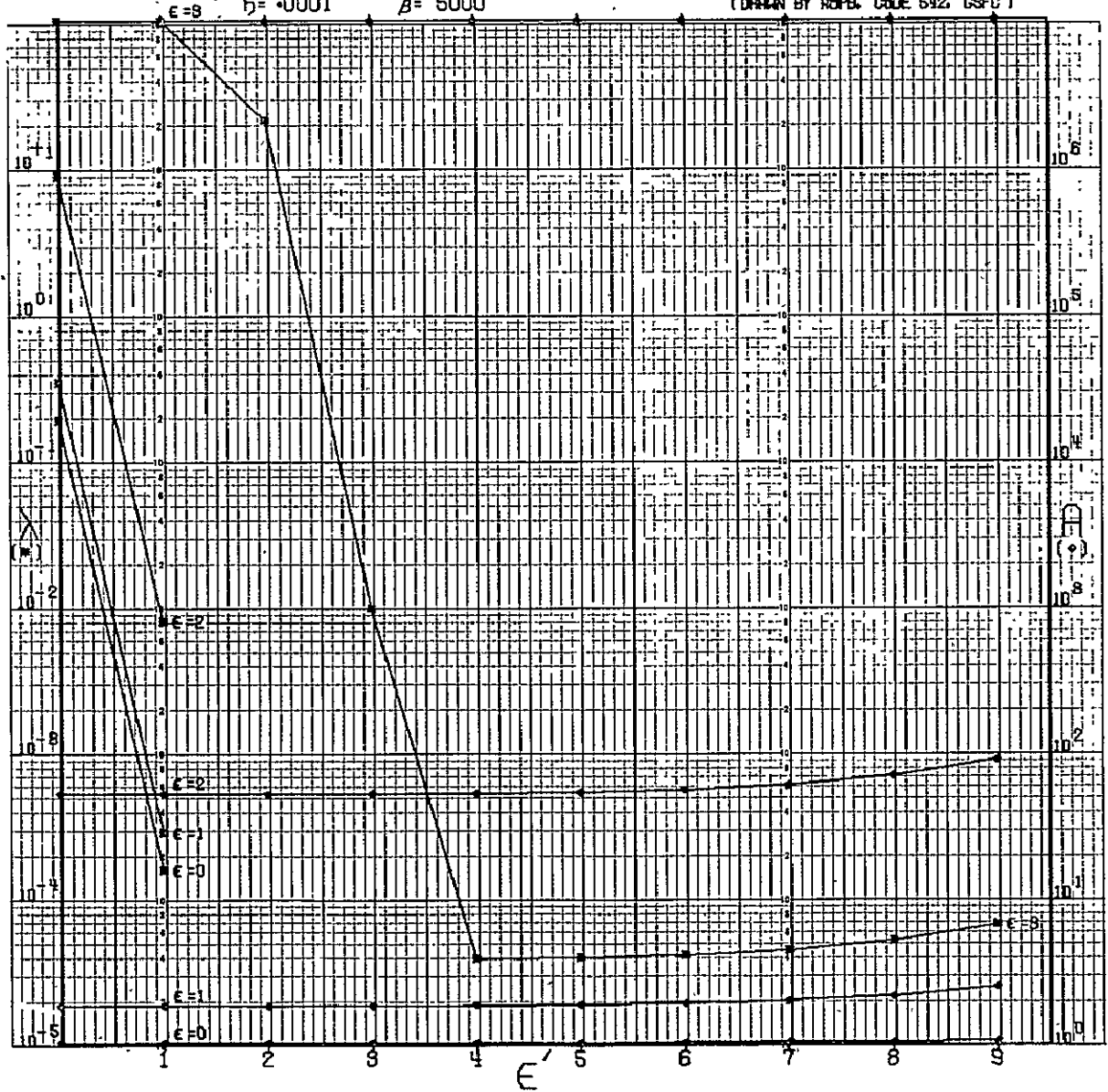
N = 18

CODE 111100110101000000
GSFC STANDARD

$\eta = .0001$

$\beta = 5000$

(DRAWN BY ROFB, CODE 512, GSFC)



A-351

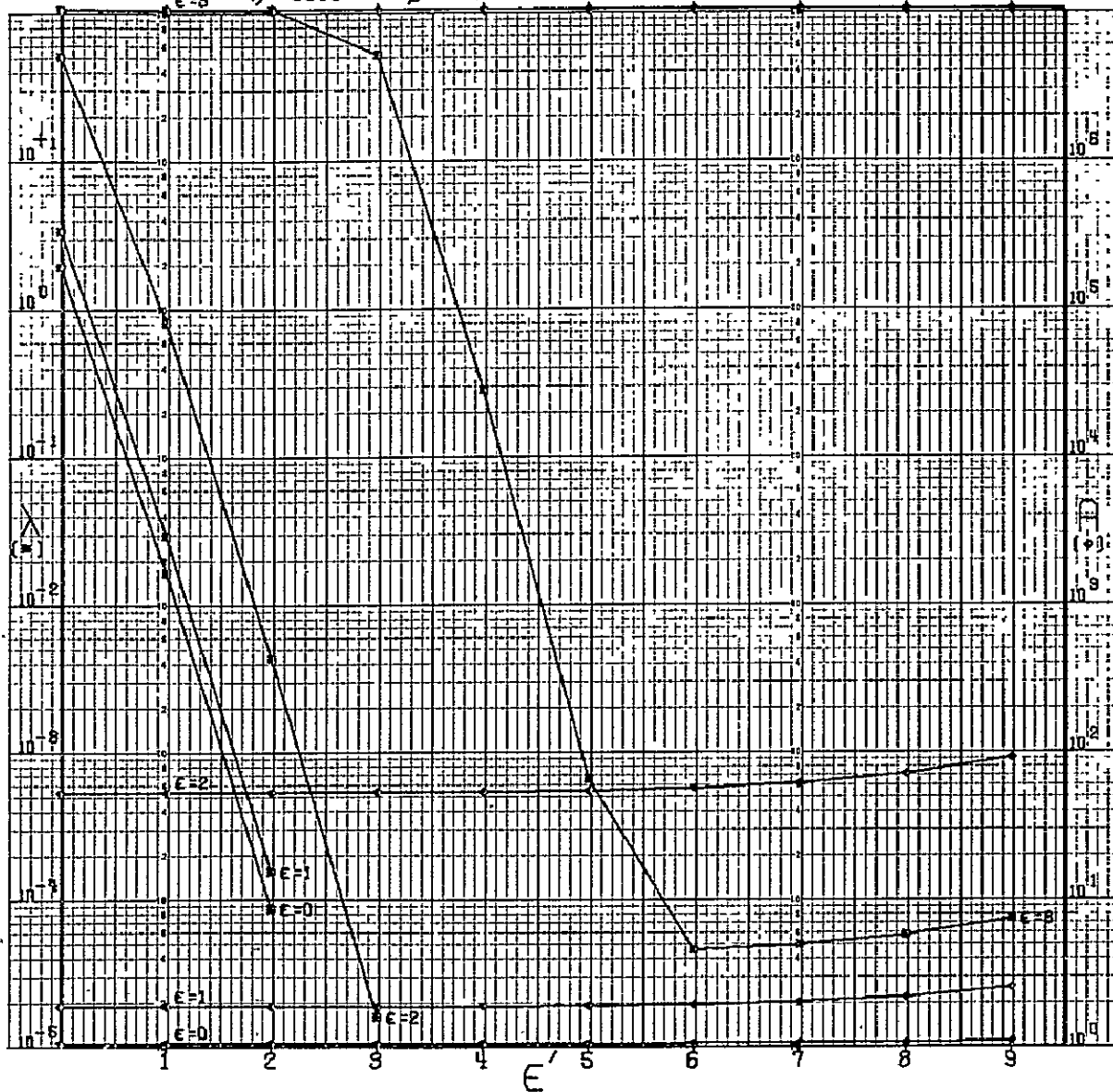
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = -0010$

$\beta = 5000$

(DRAWN BY RSPB, CODE 542, GSFC)



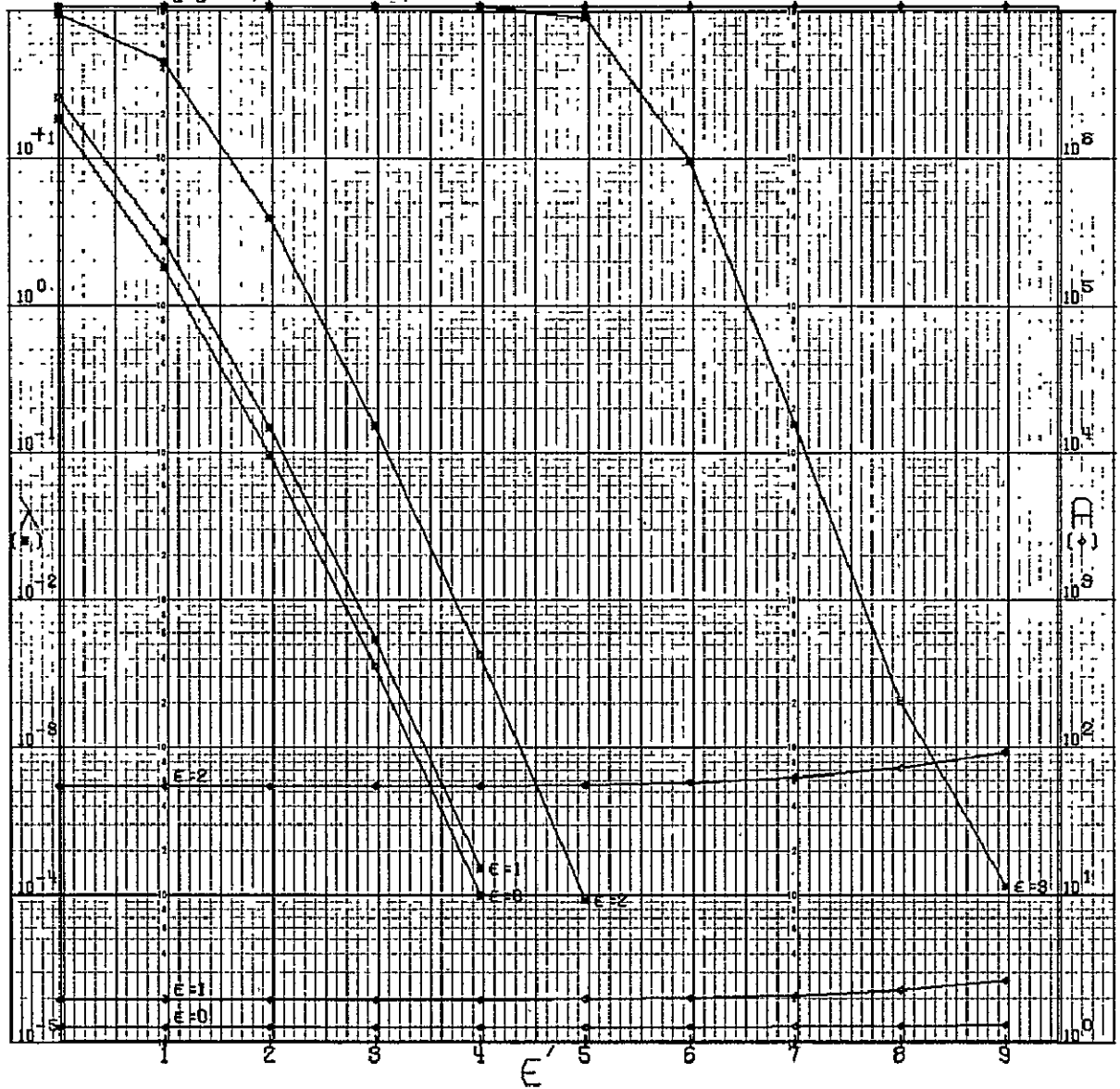
N=18

CODE 111100110101000000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0100$

$\beta = 5000$

(DRAWN BY ROPE, CODE 542, GSFC)



N=18

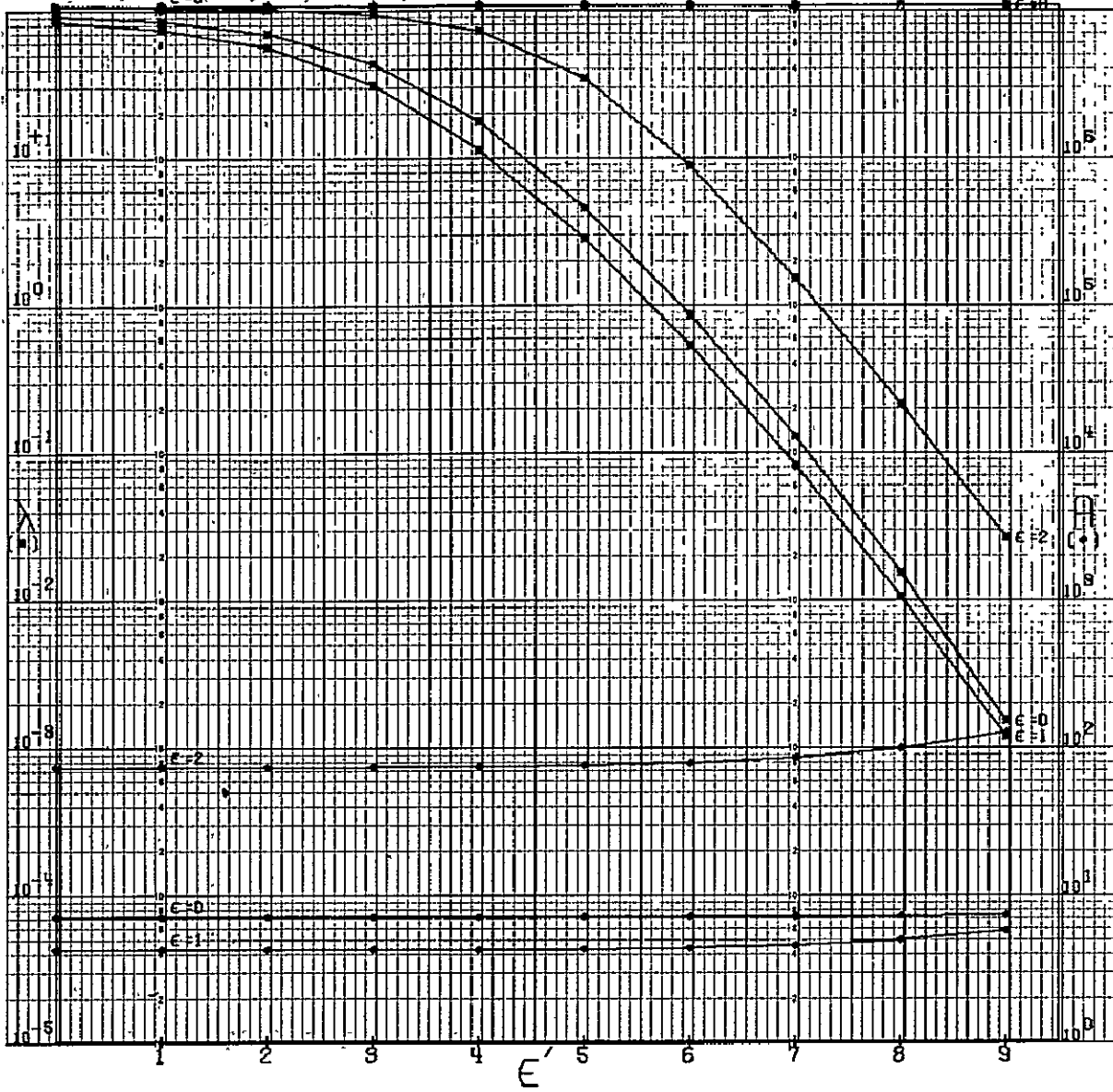
CODE 111100110101000000

GSFC STANDARD

$b = 1000$

$B = 5000$

(DRAWN BY ACPB, CODE 542, GSFC)



A-354

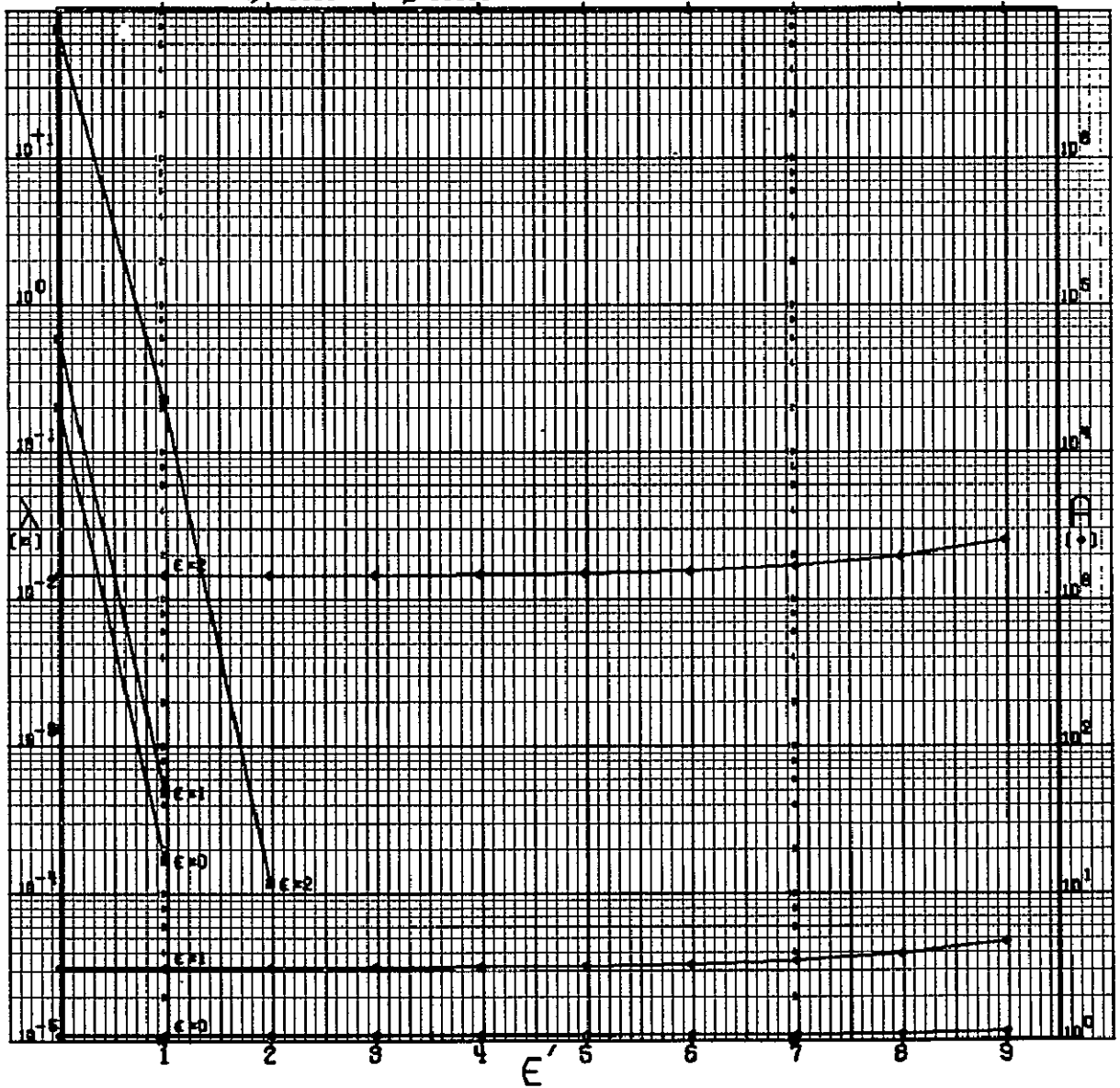
N=18

CODE 111100110101000000
SEFC STANDARD

$\eta = 0.0001$

$\beta = 10000$

(DRAWN BY ROPG. CODE 692, 66FD)



N=18

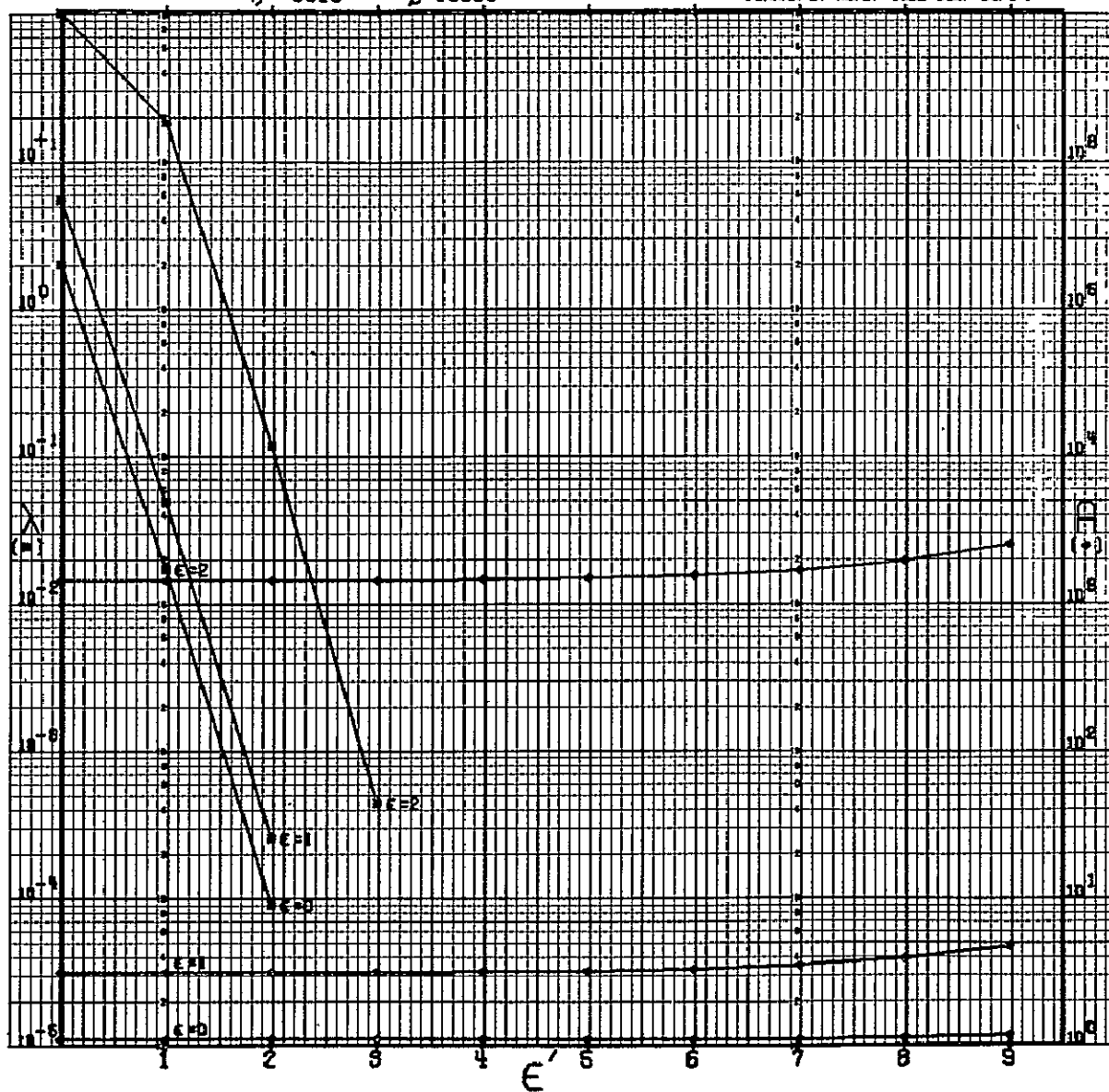
CODE 111100110101000000

GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPS, CODE 542, GSFC)



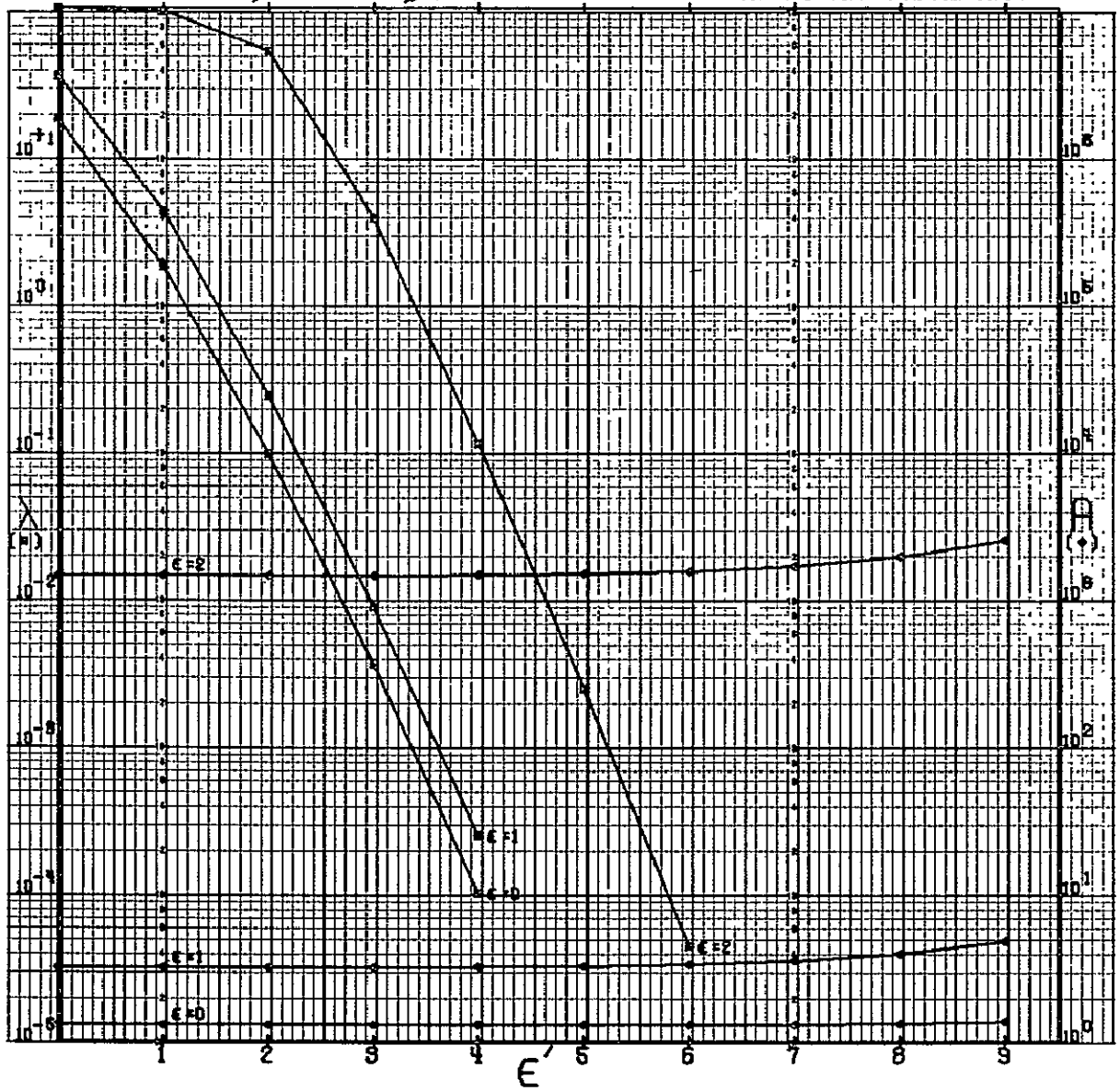
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = +0100$

$\beta = 10000$

(DRAWN BY ROPS CODE 542, GSFC)



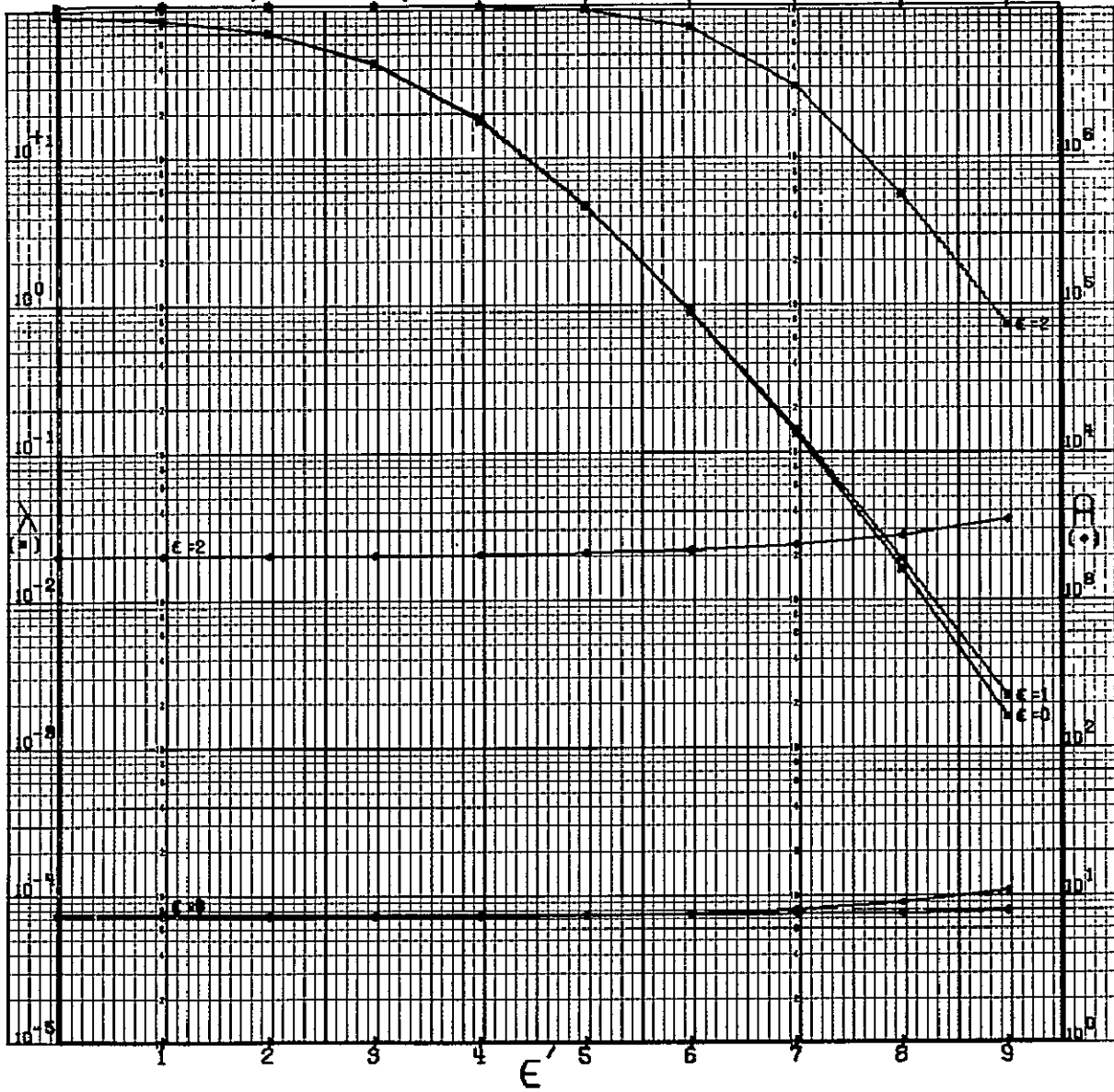
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-358

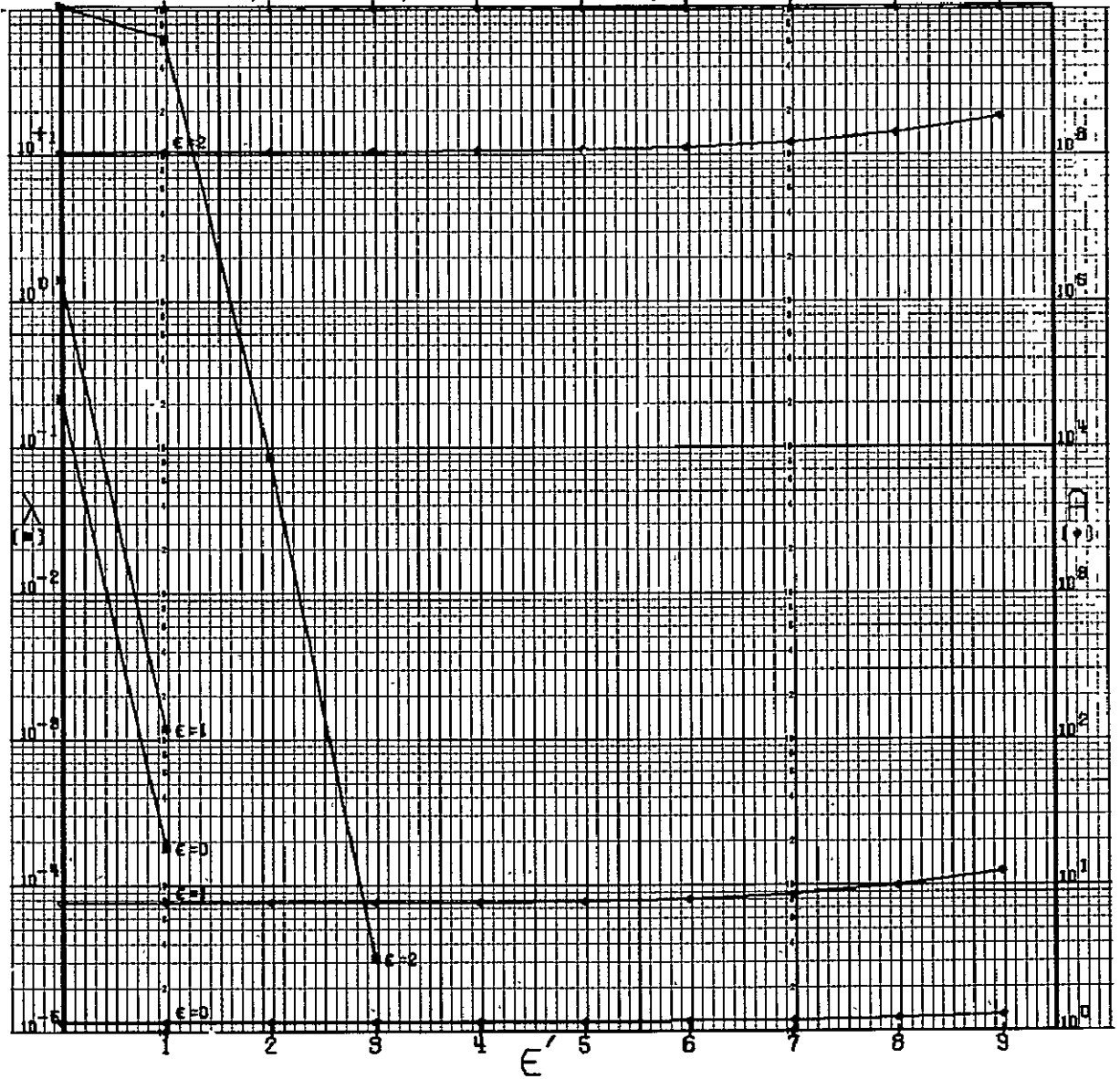
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = +0001$

$\beta = 20000$

(DRAWN BY ROPS, CODE 512, GSFC)



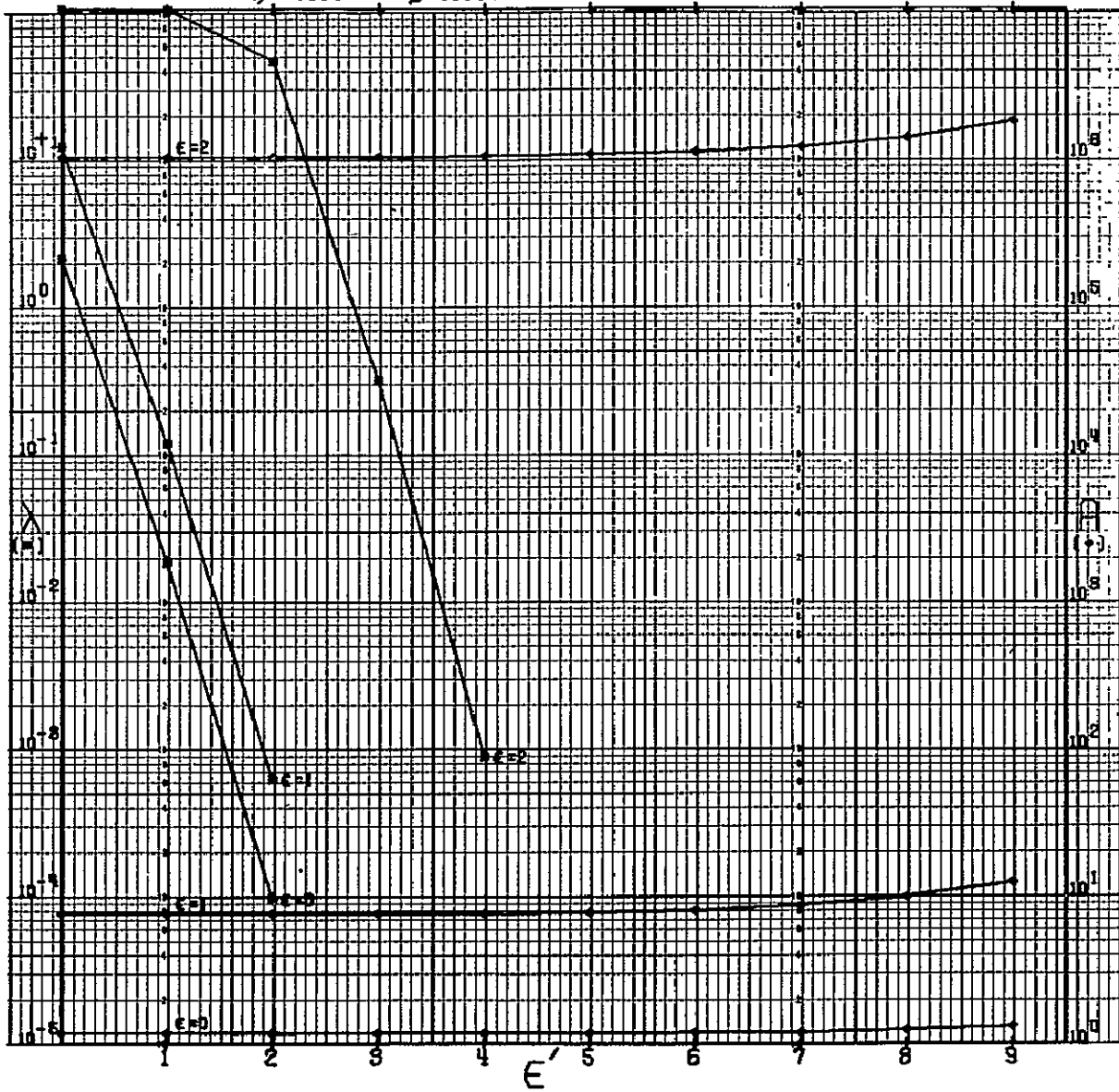
N=18

CODE 111100110101000000
GFC STANDARD

$\eta = +0010$

$\beta = 20000$

(DRAWN BY ROPL CODE 542 GFC)



A-360

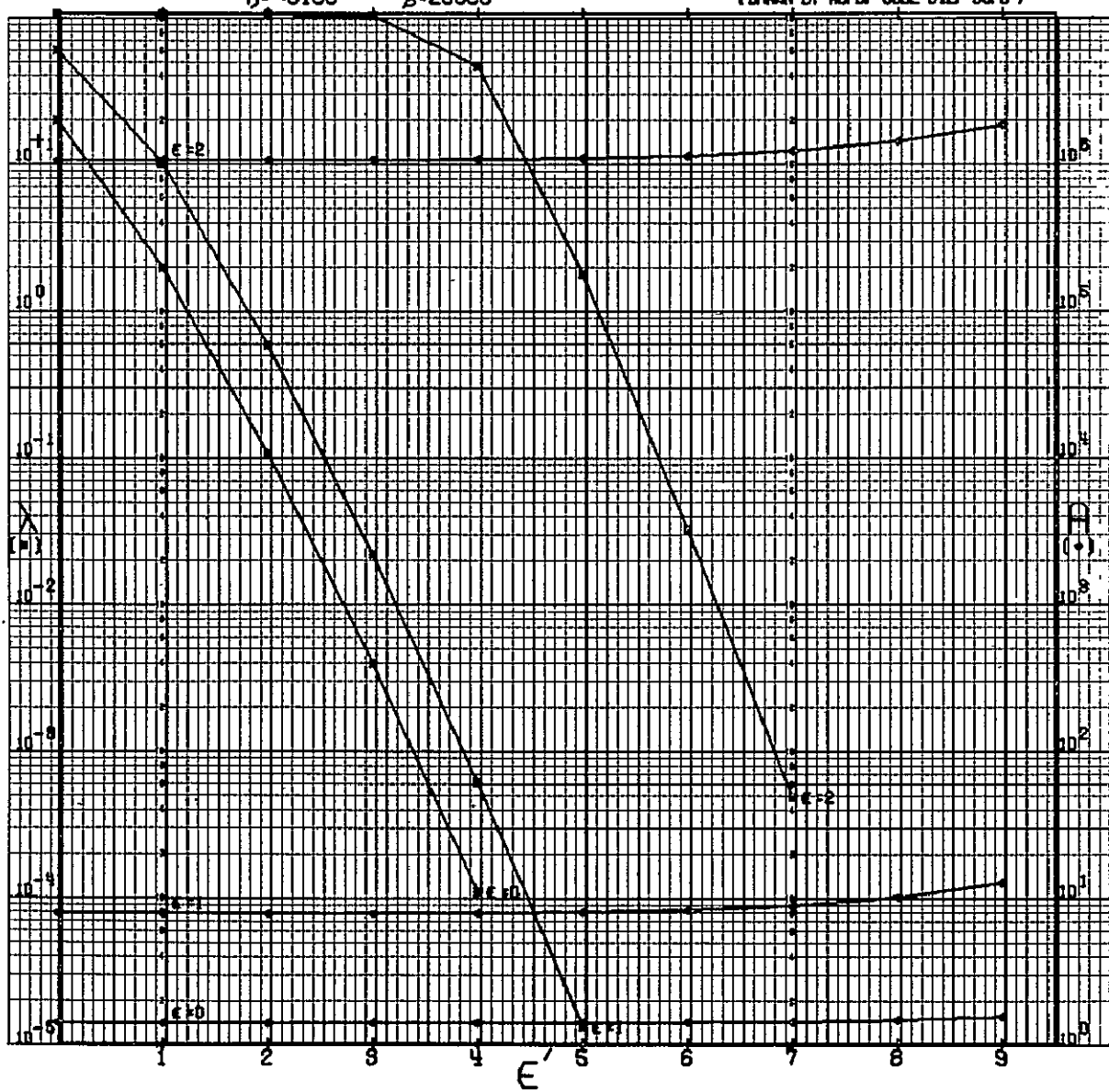
N=18

CODE 111100110101000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 20000$

(DRAWN BY ADP6, CODE 642, GSFC)



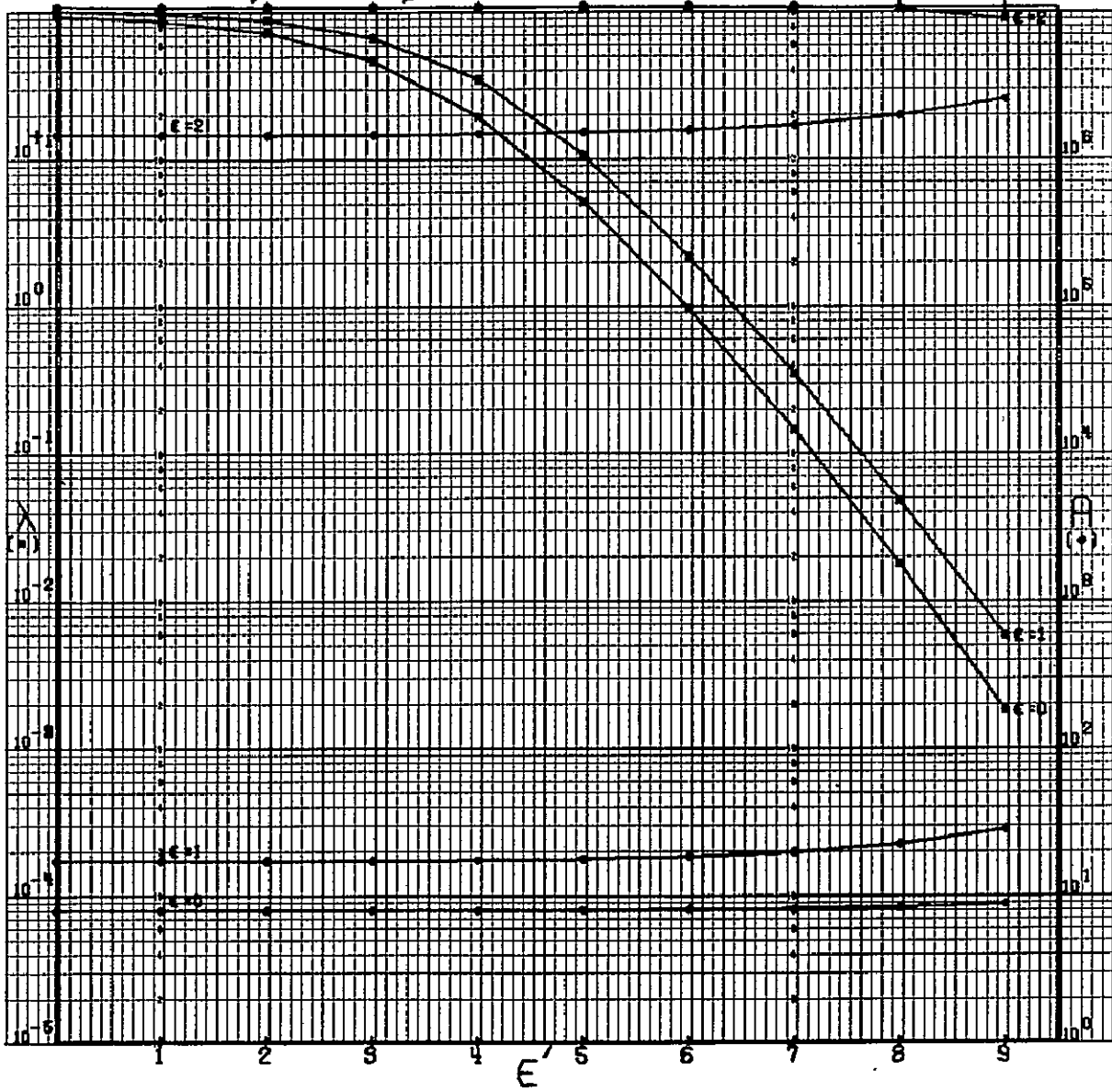
N=16

CODE 111100110101000000
GDFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROPE CODE 592, GDFC)



$N = 19$

N=19

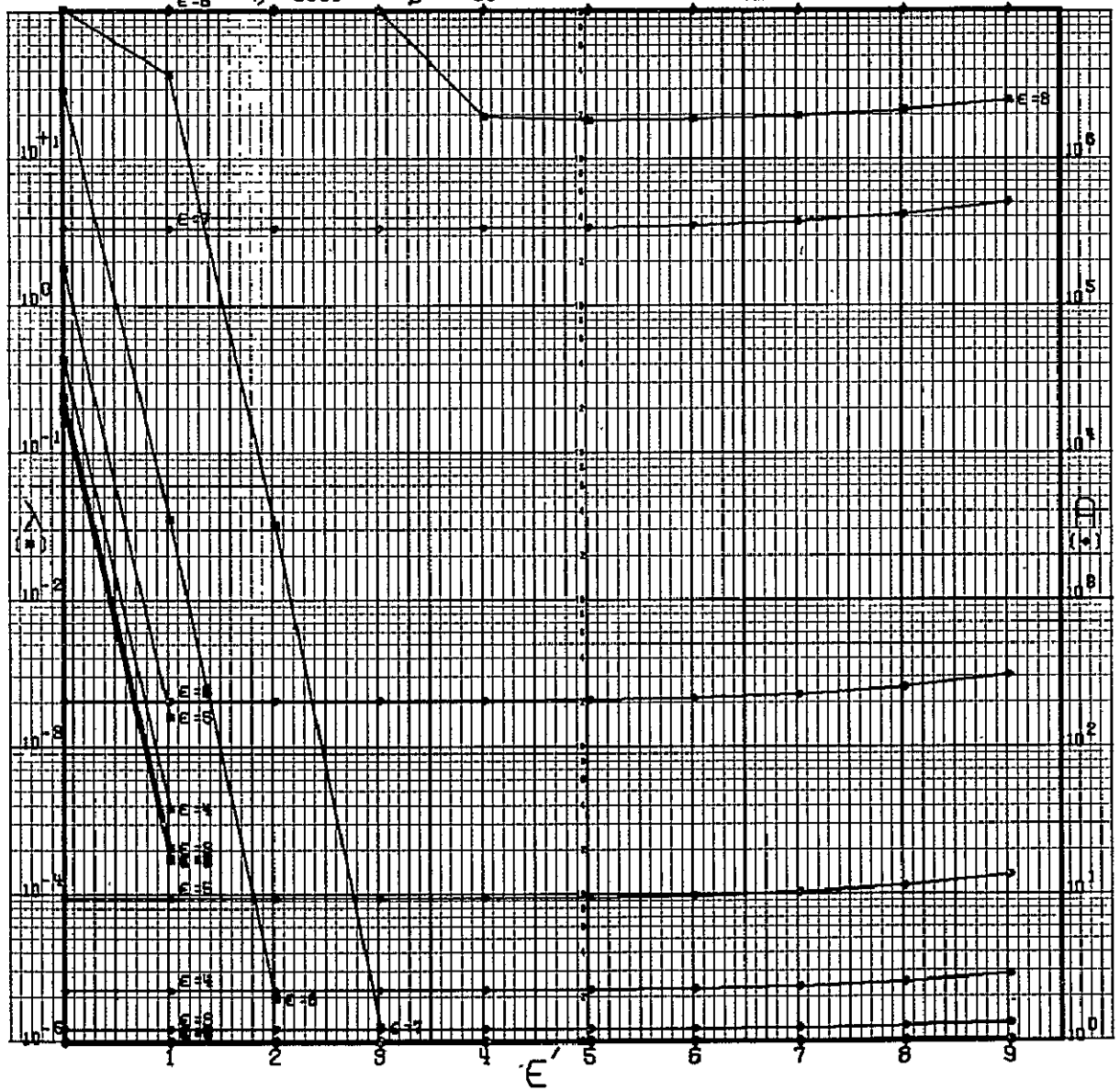
CODE 1111100110010100000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N=19

CODE 1111100110010100000

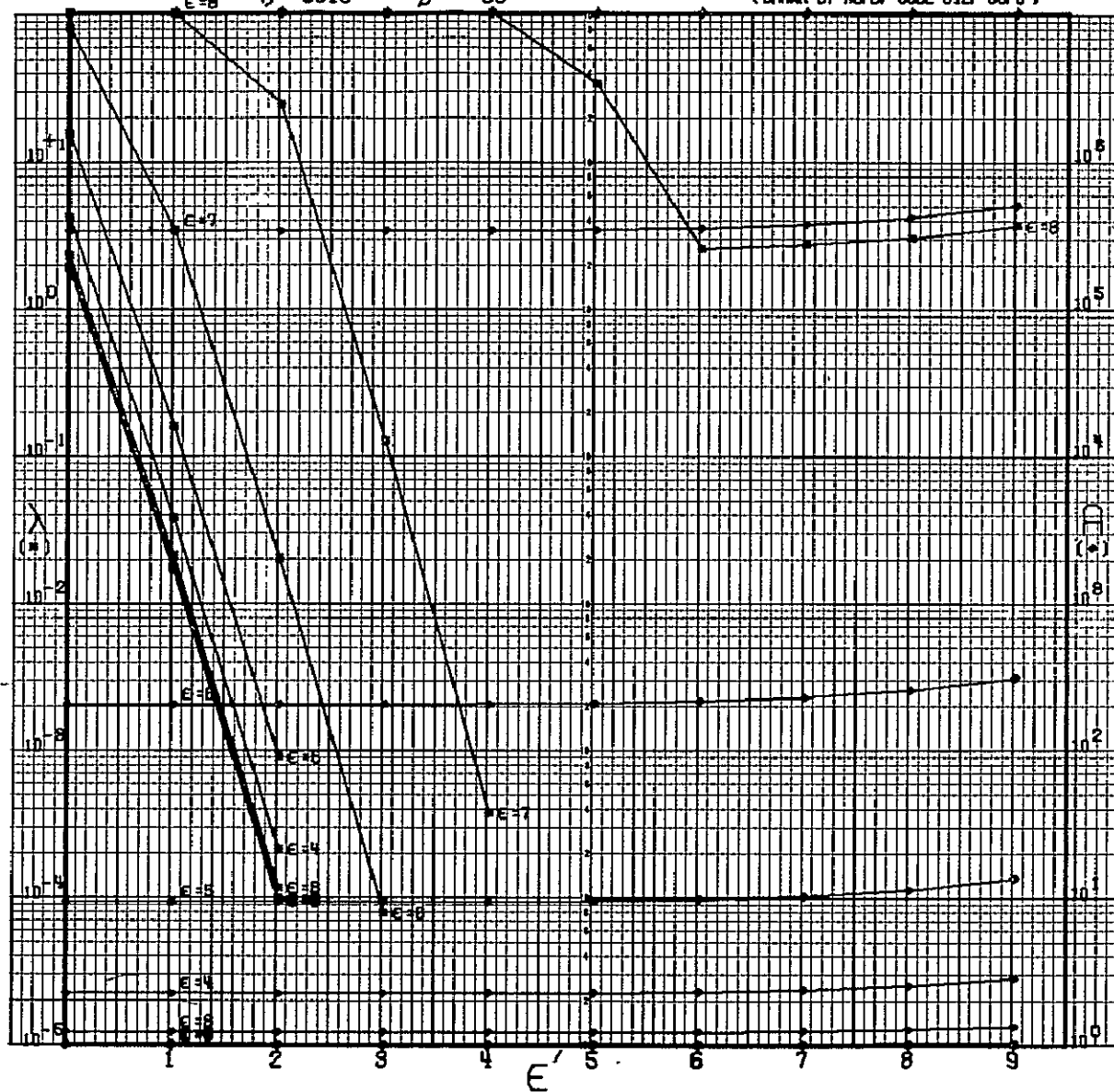
GSFC STANDARD

$\epsilon=8$

$D=+0010$

$\beta=50$

(DRAWN BY ROPEL CODE 542, GSFC)



A-364

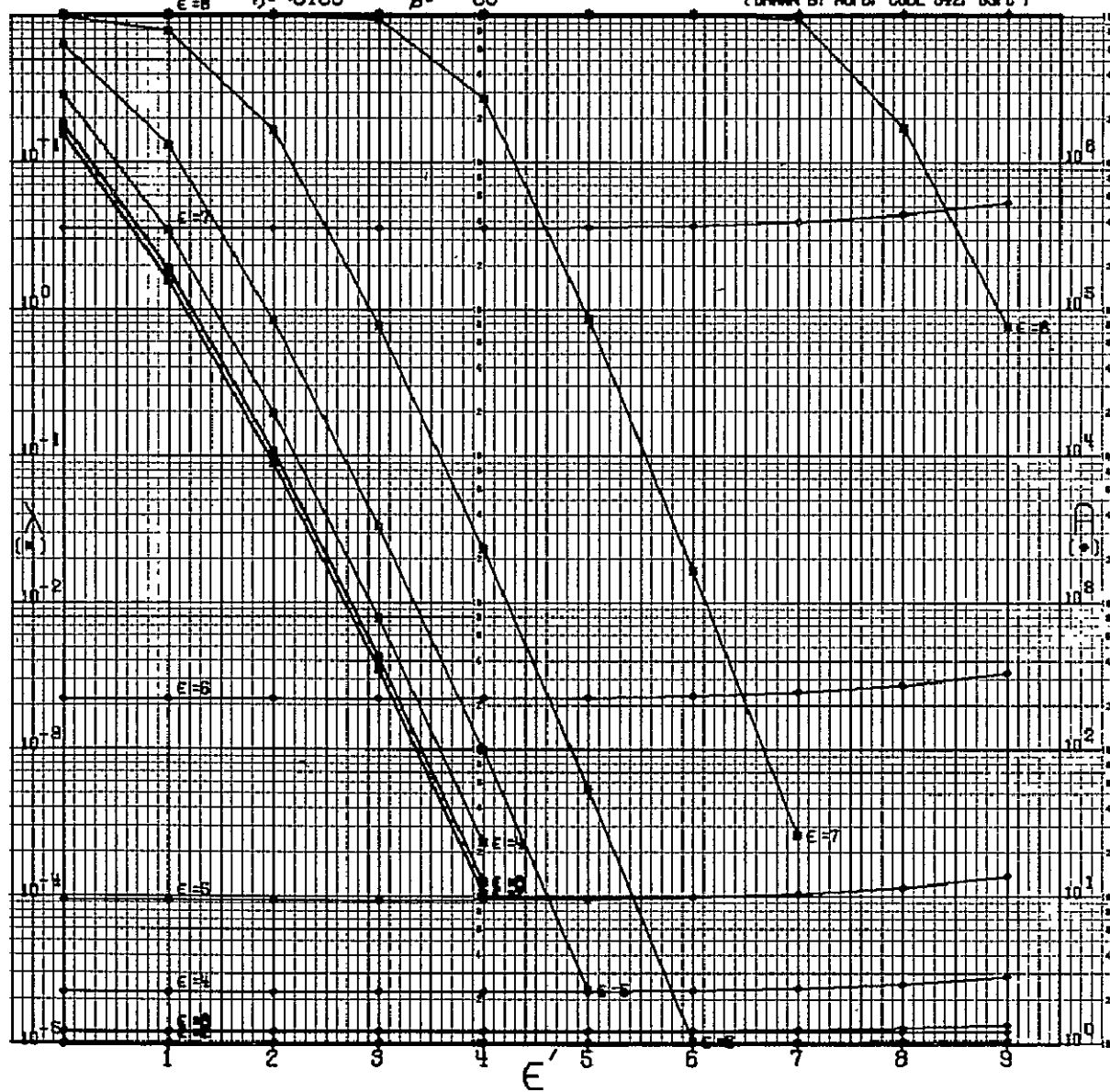
N=19

CODE 1111100110010100000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.100$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 19

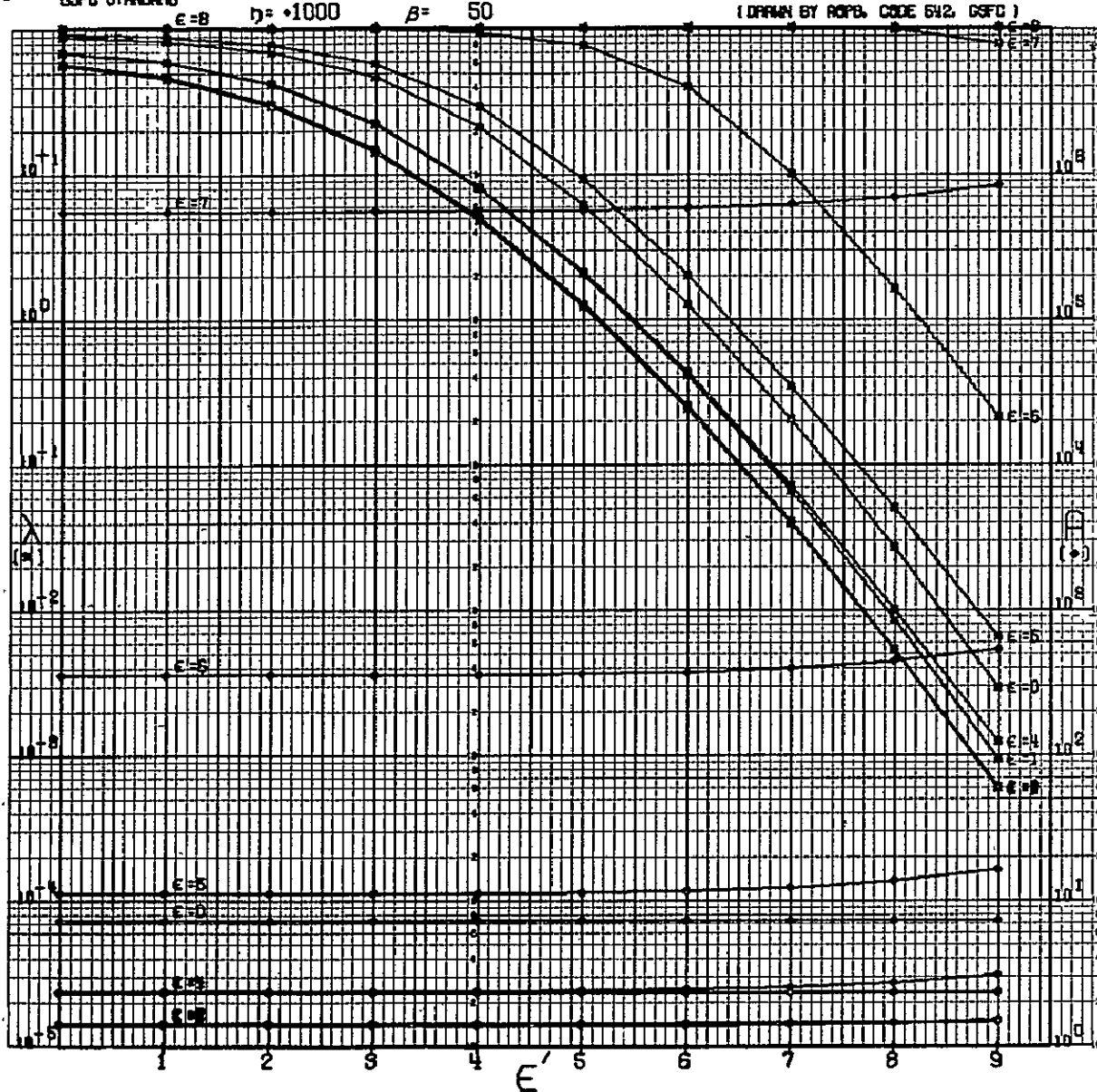
CODE 1113100310010100000

GSFC STANDARD

$\eta = 1000$

$\beta = 50$

(DRAWN BY AOPB, CODE 642, GSFC)



N = 19

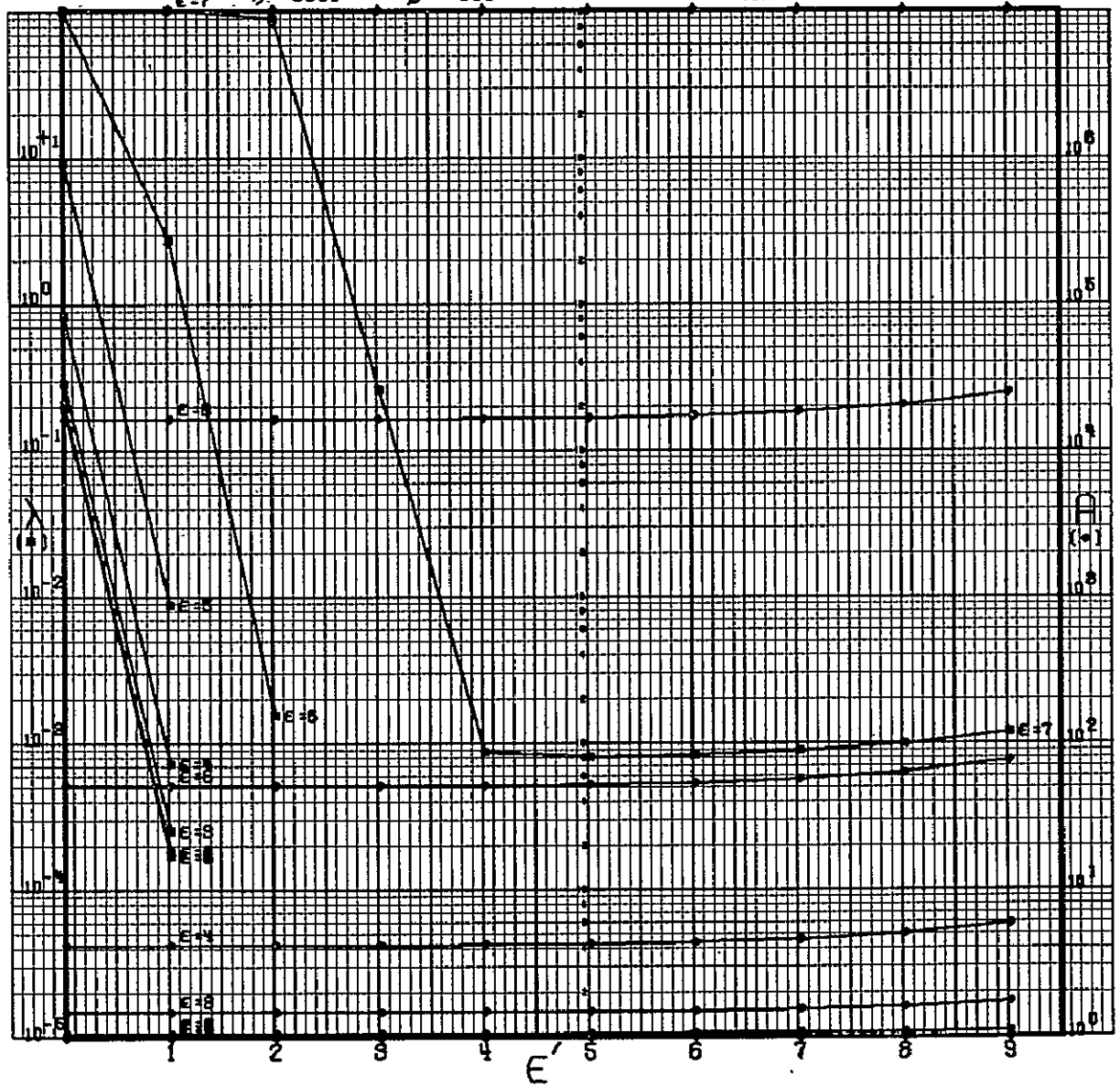
CODE 1111100110010100000

GSFC STANDARD

$\epsilon = 7$ $\eta = 0.0001$

$\beta = 100$

(DRAWN BY ADPBL CODE 542, GSFC)



N=19

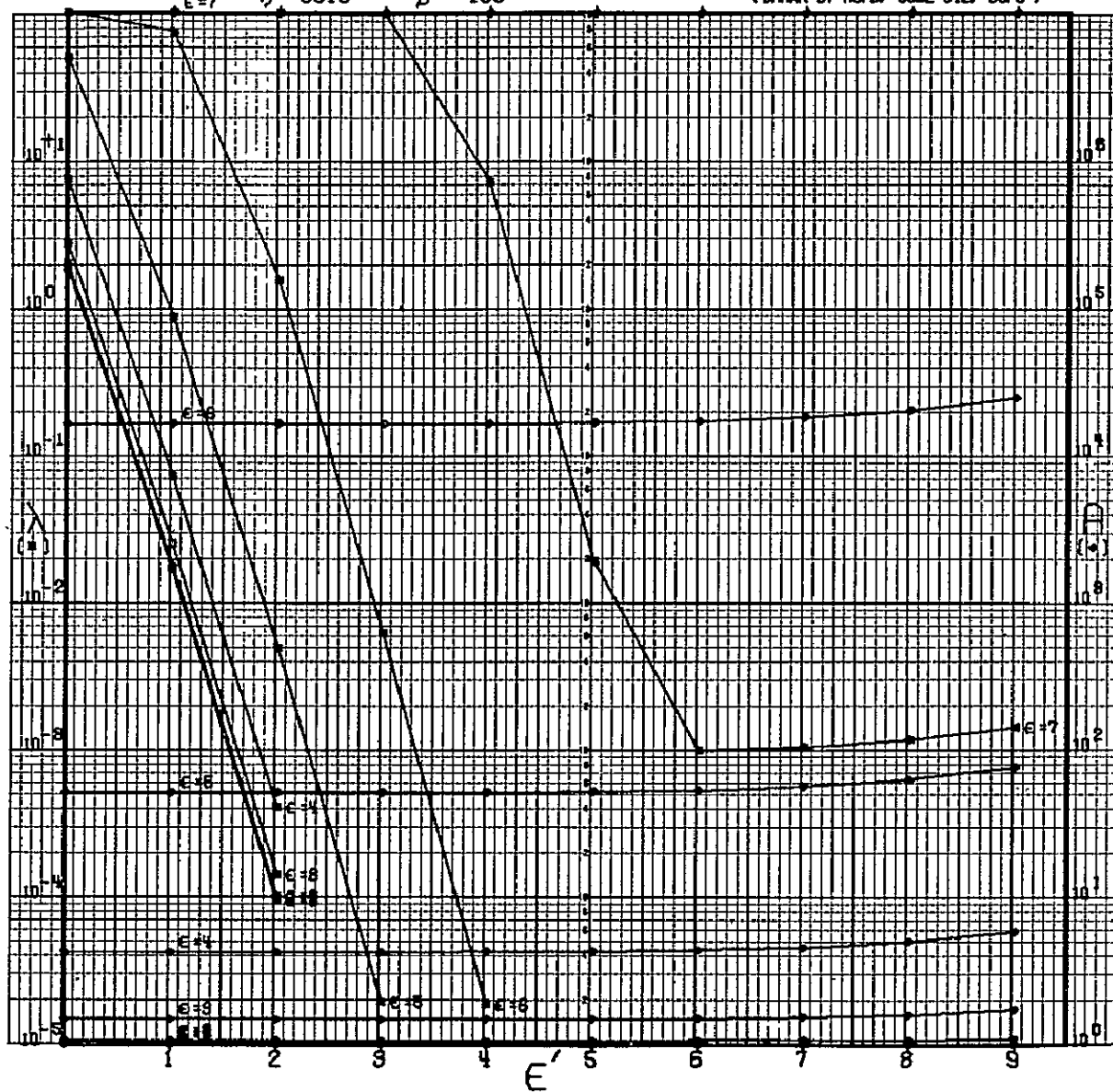
CODE 1111100110010100000

GSFC STANDARD

$\epsilon = 7$ $\eta = .0010$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



N=19

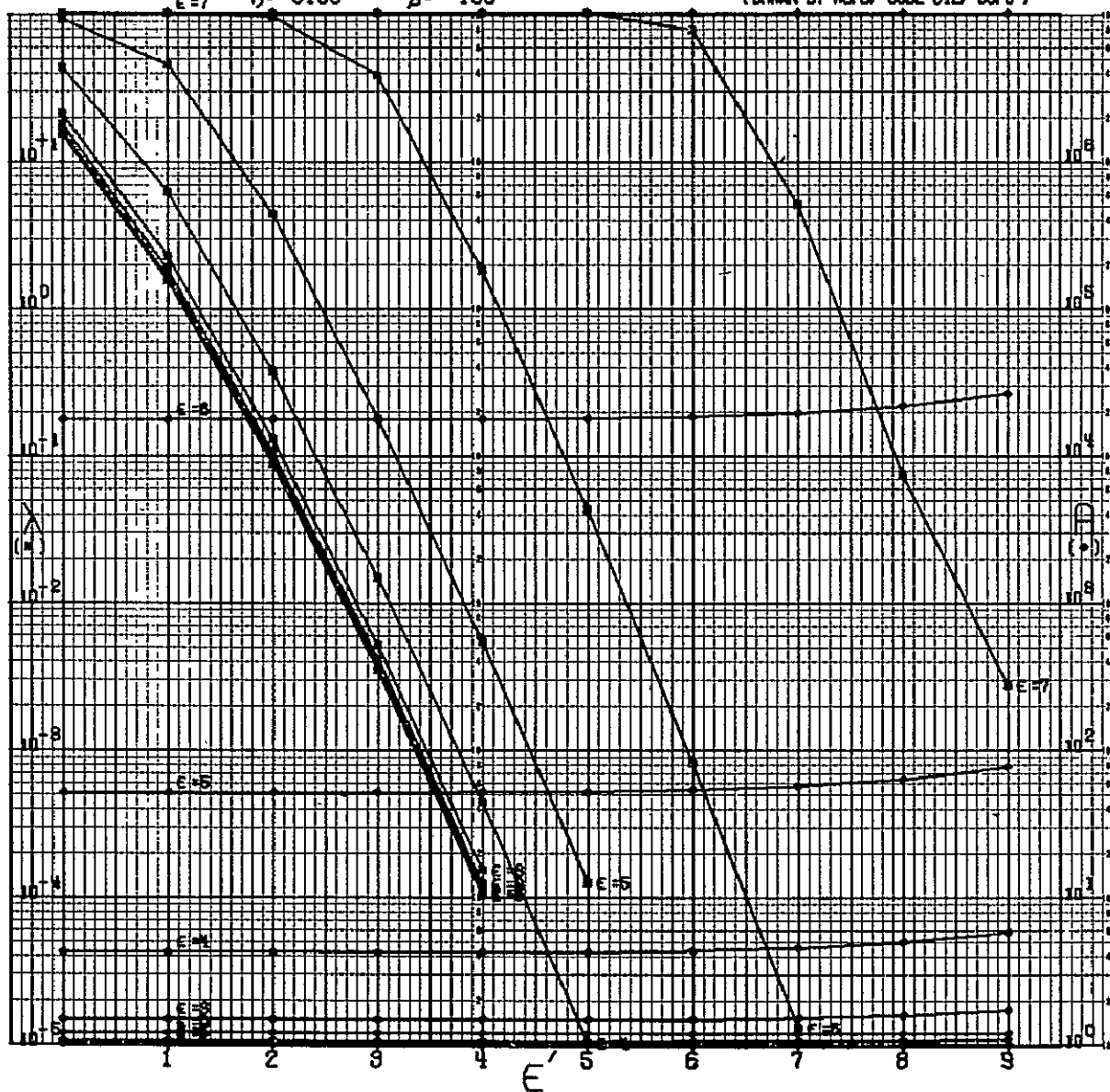
CODE 1111100110010100000

GSFC STRANDAPD

$\epsilon = 7$ $\eta = .0100$

$\beta = 100$

(DRAWN BY ADPB, CODE 542, GSFC)



N=19

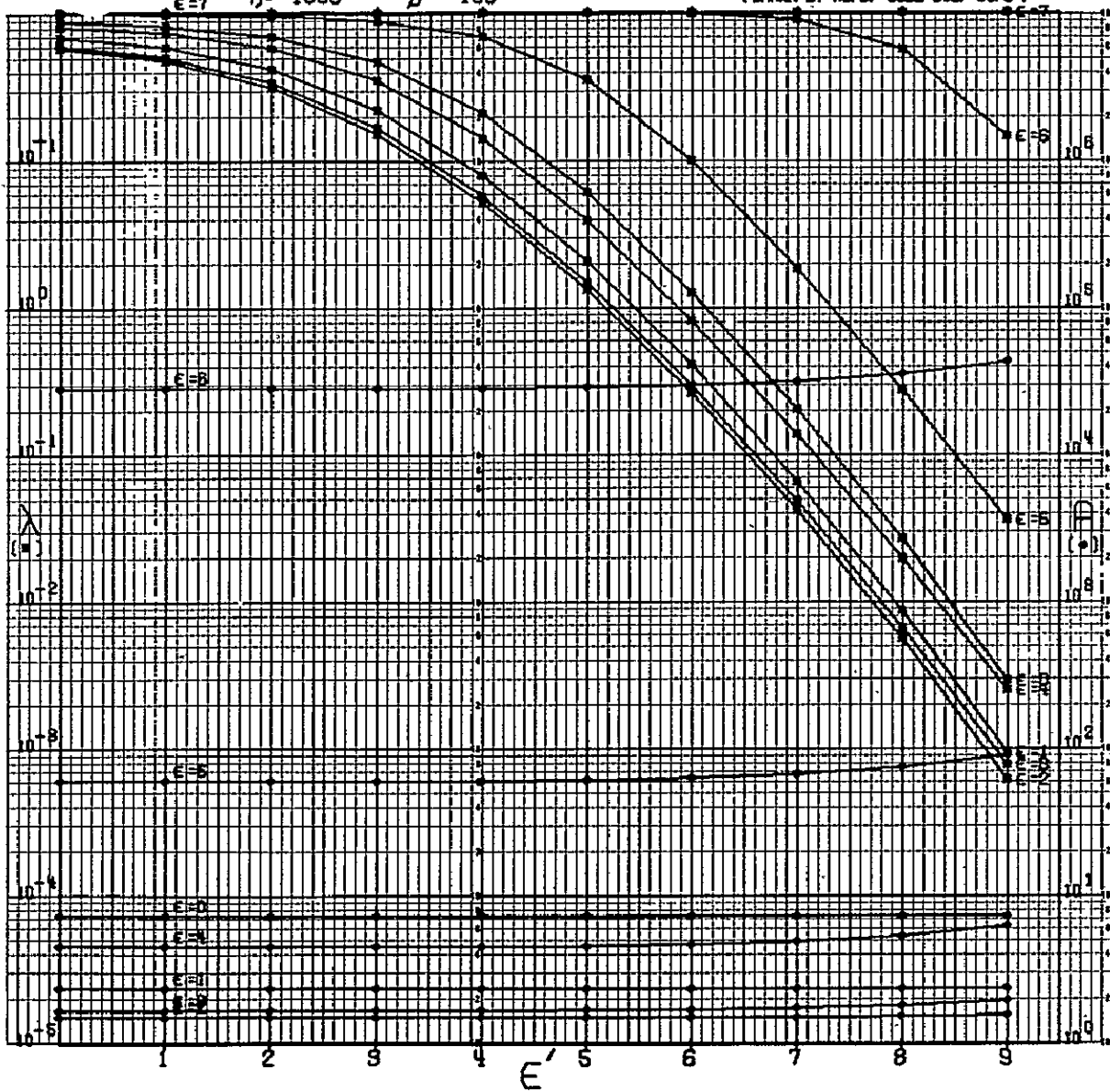
CODE 1111100110010100000

GSFC STANDARD

$\epsilon=7$ $\eta=1000$

$\beta=100$

(DRAWN BY ROPB, CODE 592, GSFC)



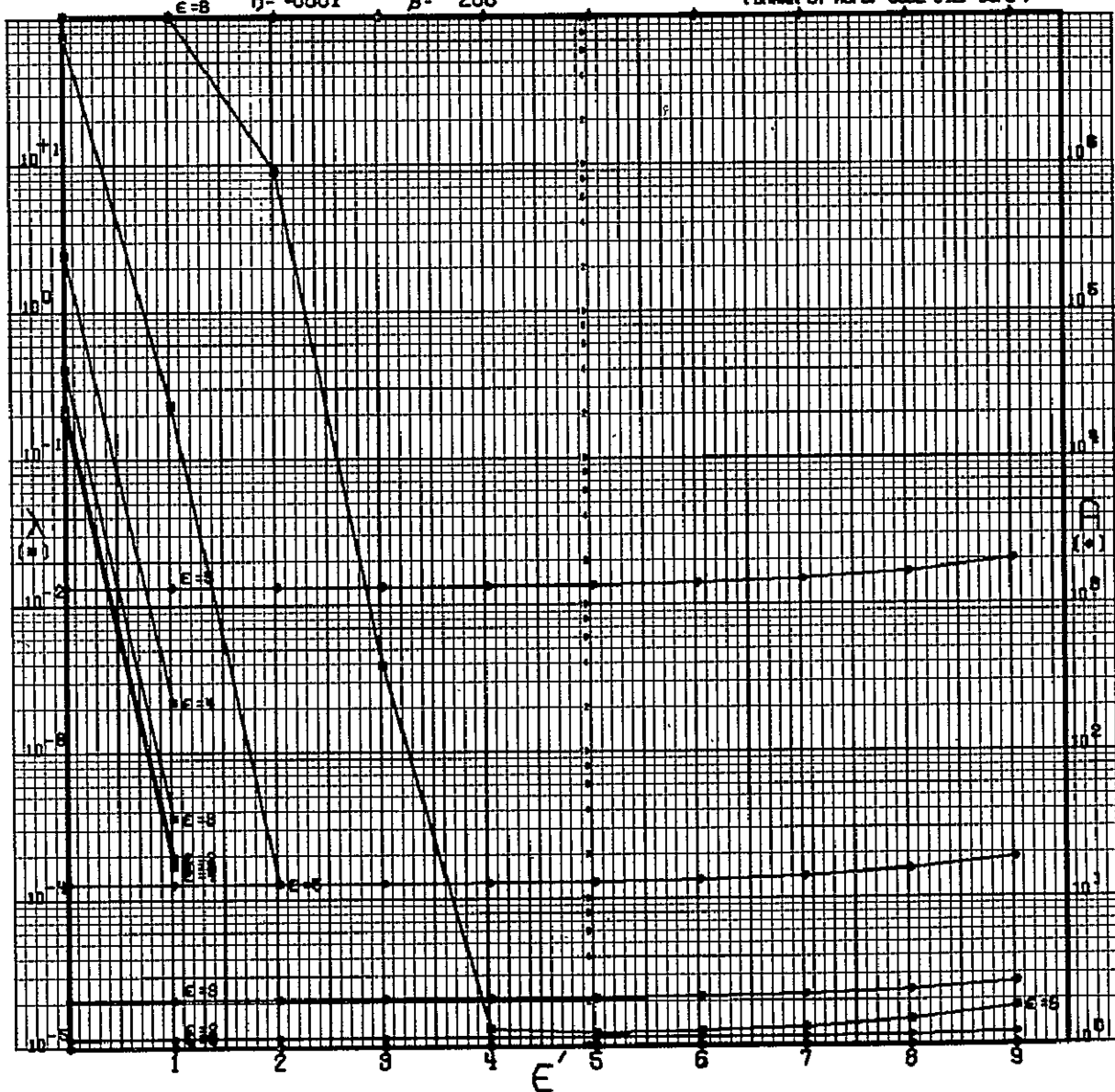
N=19

CODE 1111100110010100000
GFC STANDARD

$\epsilon = 8$ $\eta = 0.0001$

$\beta = 200$

(DRAWN BY ROPE CODE 542 GFC)



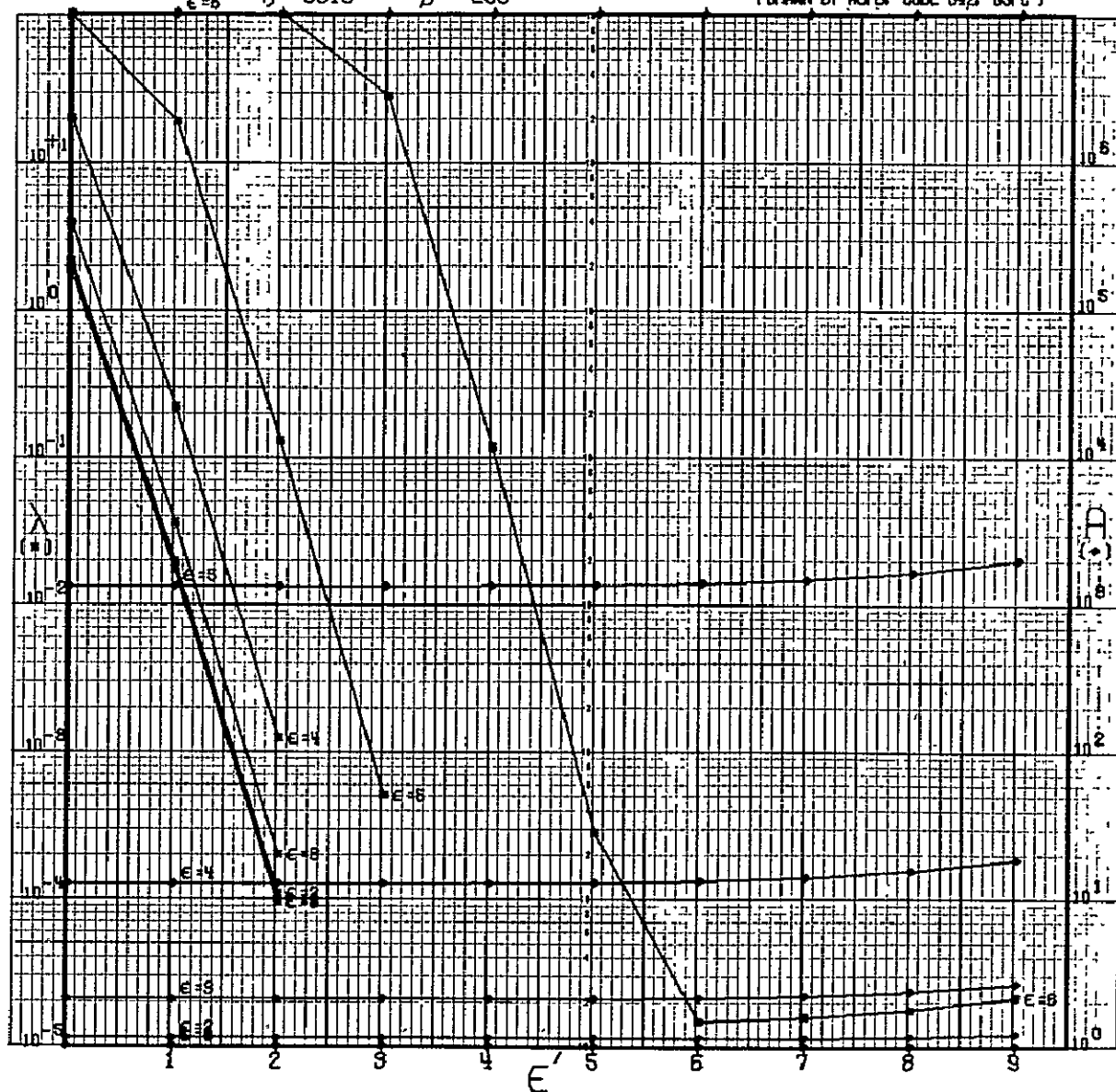
N=19

CODE 1111100110010100000
GSFC STANDARD

$\epsilon = 8$ $D = +0010$

$\beta = 200$

(DRAWN BY ROFB, CODE 542, GSFC)



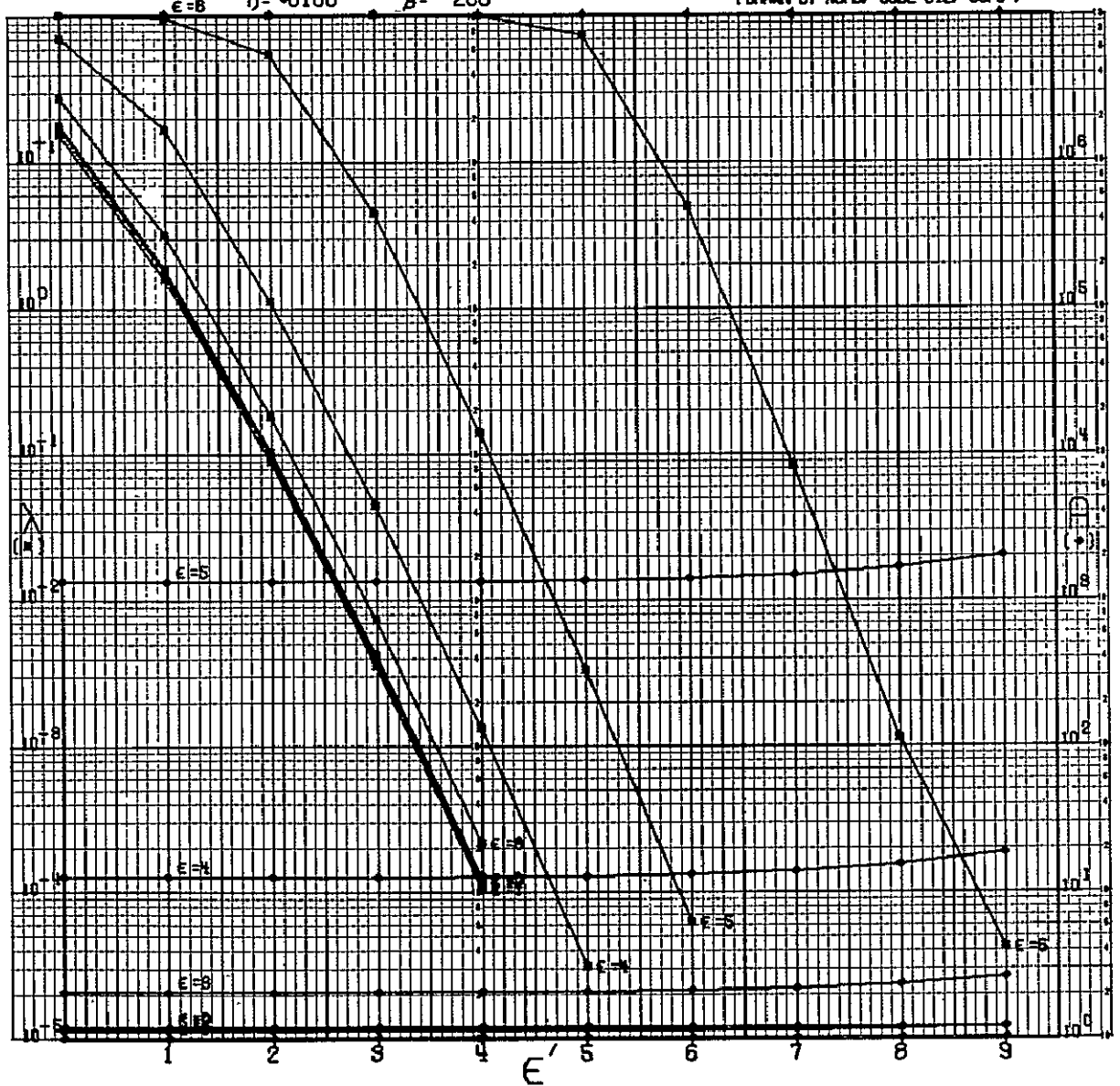
N=19

CODE 1111100110010100000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.100$

$\beta = 200$

(DRAWN BY ROPE, CODE 542, GSFC)



N=19

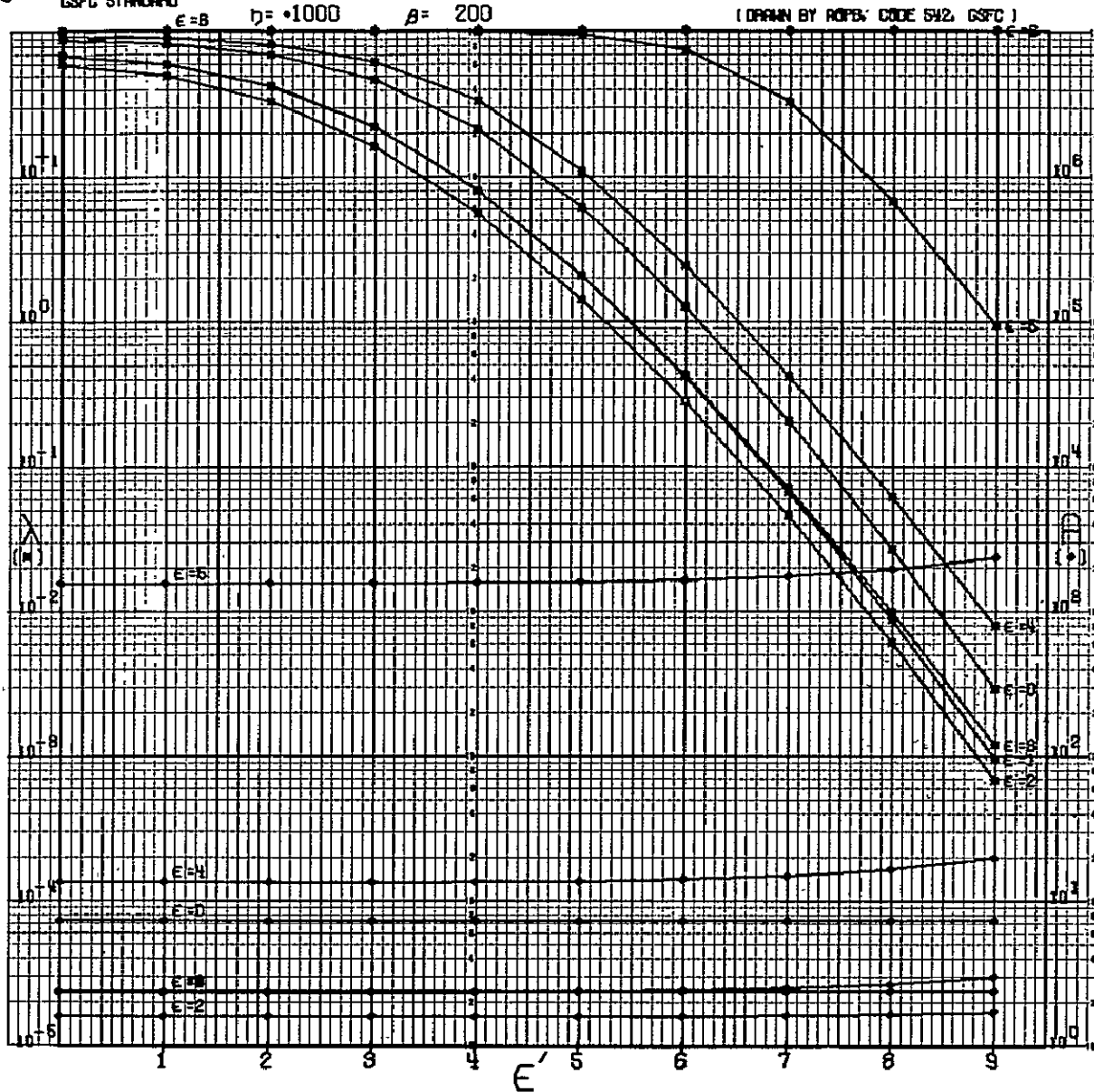
CODE 1111100110010100000

GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPB: CODE 542, GSFC)



N=19

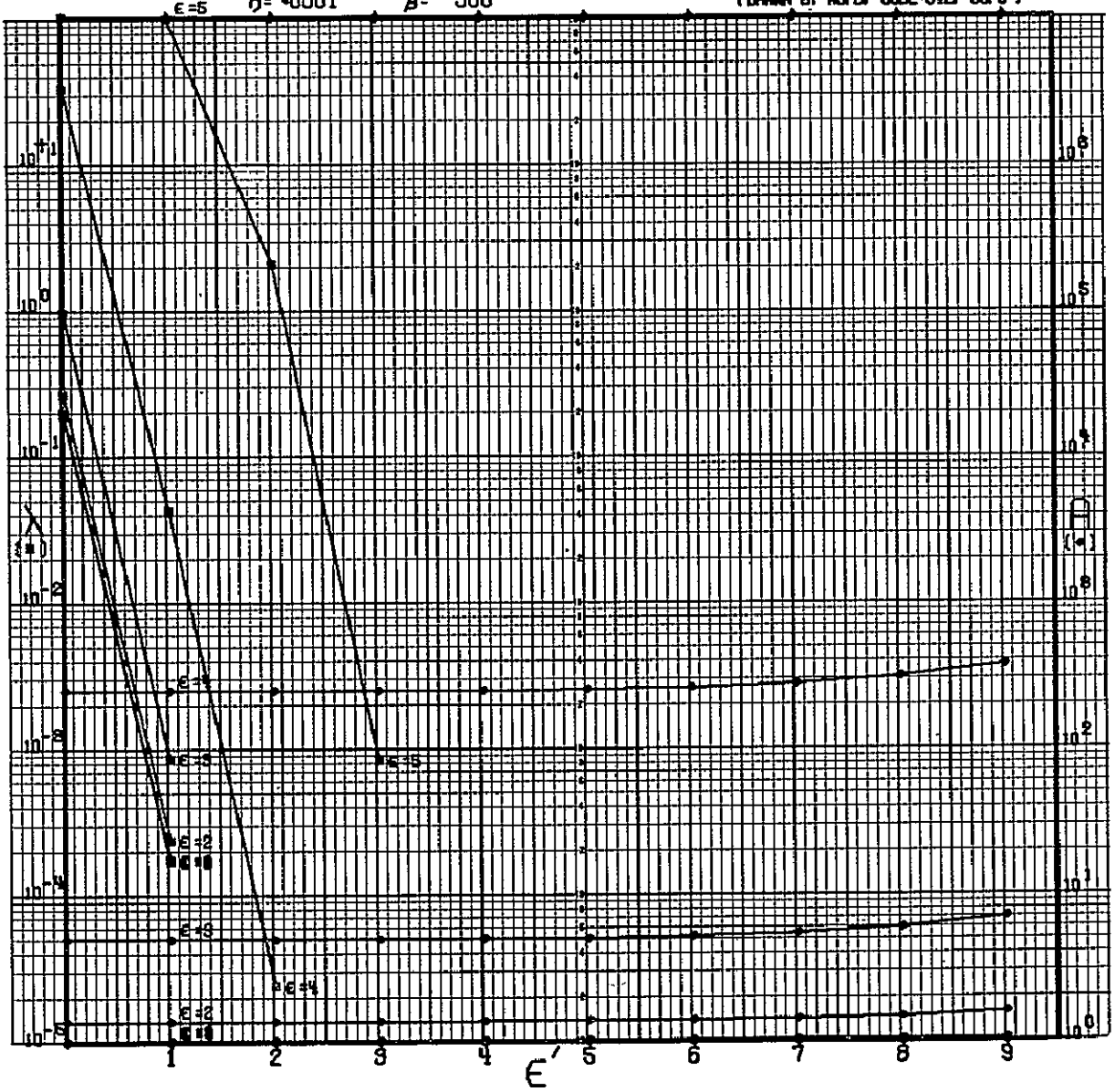
CODE 1111100110010100000

GSFC STANDARD

$\eta = -0001$

$\beta = 500$

(DRAWN BY AOPS, CODE 542, GSFC)



N = 19

CODE 11111001100101000000

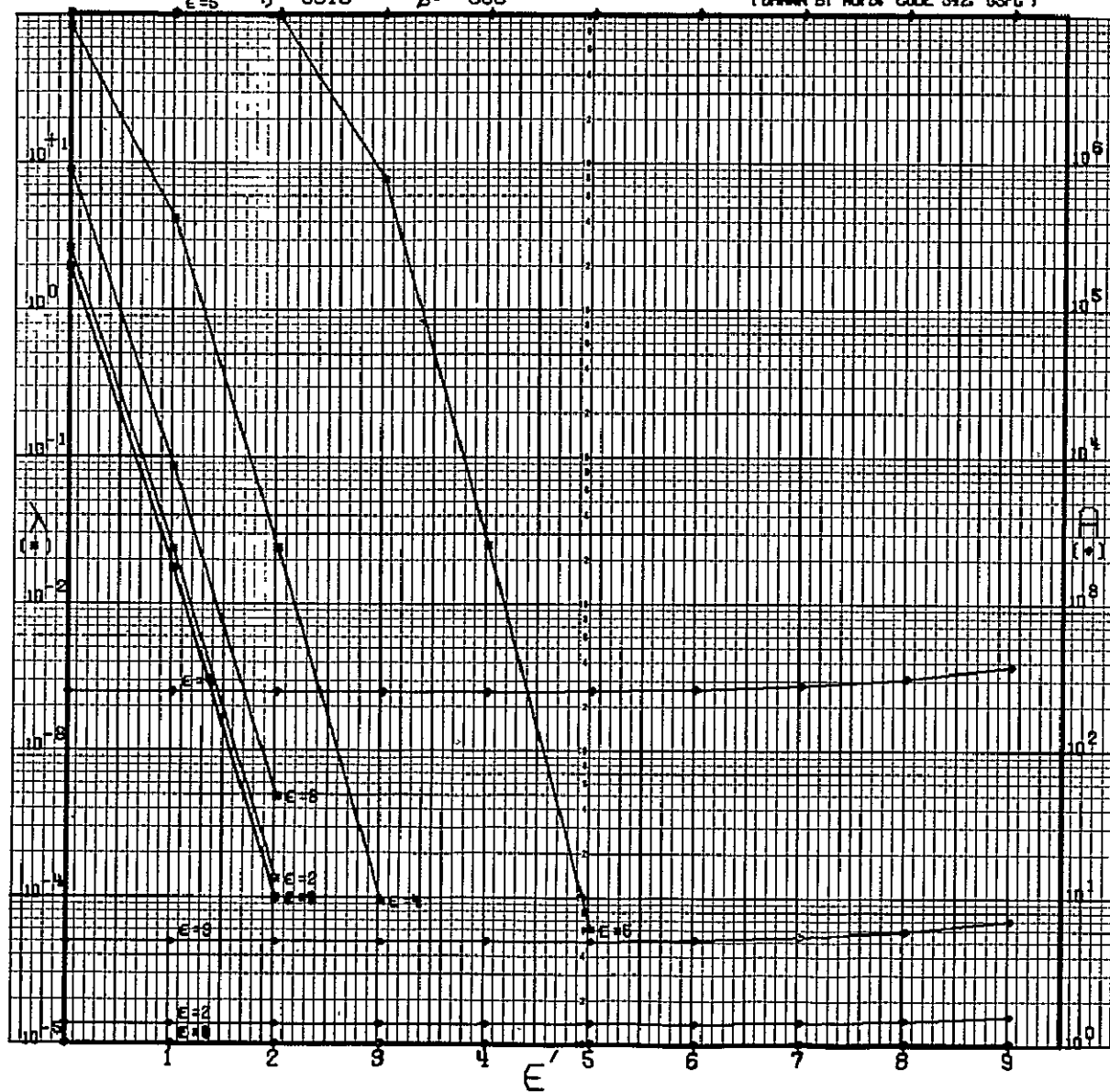
GSFG STANDARD

$\epsilon = 5$

$\eta = +0010$

$\beta = 500$

(DRAWN BY ROPEL CODE 542 GSFG)



N=19

CODE 11111001100101000000

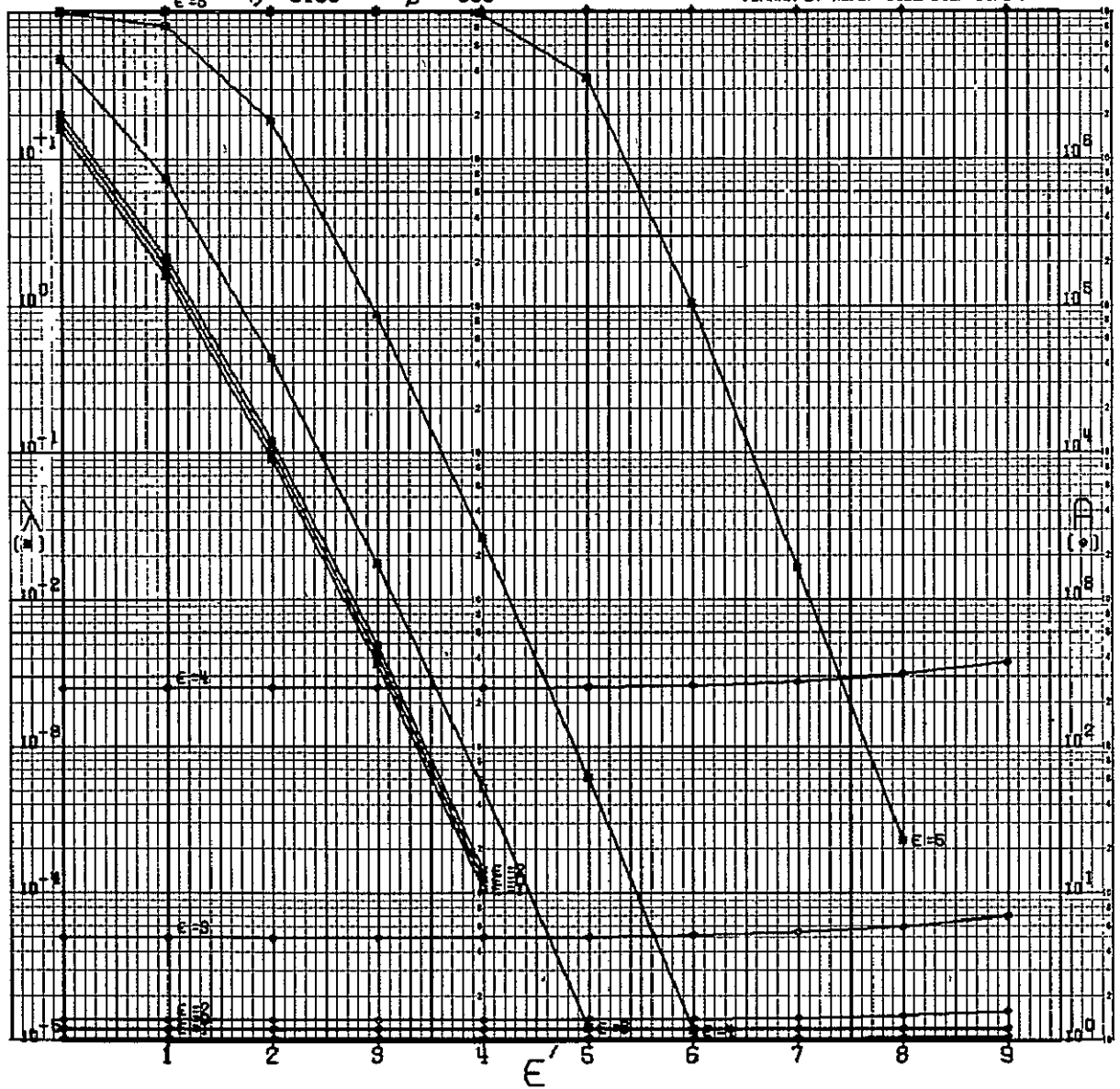
GSFC STANDARD

$\epsilon=5$

$\eta=+0100$

$\beta=500$

(DRAWN BY ROFB, CODE 542, GSFC)



N=19

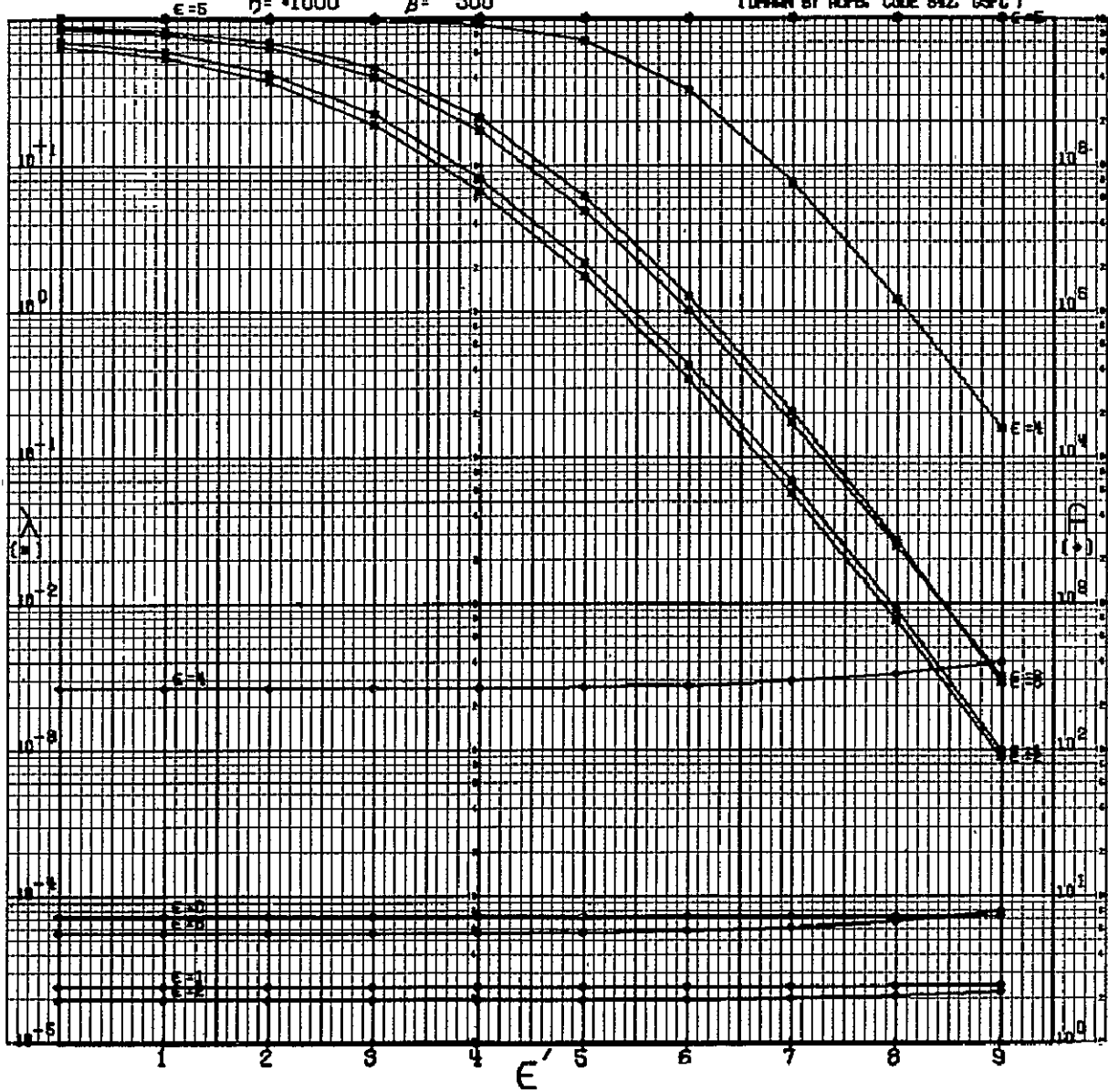
CODE 1111100110010100000

GSFC STANDARD

$\eta = +1000$

$\beta = 500$

(DRAWN BY ROPEL CODE 512, GSFC)



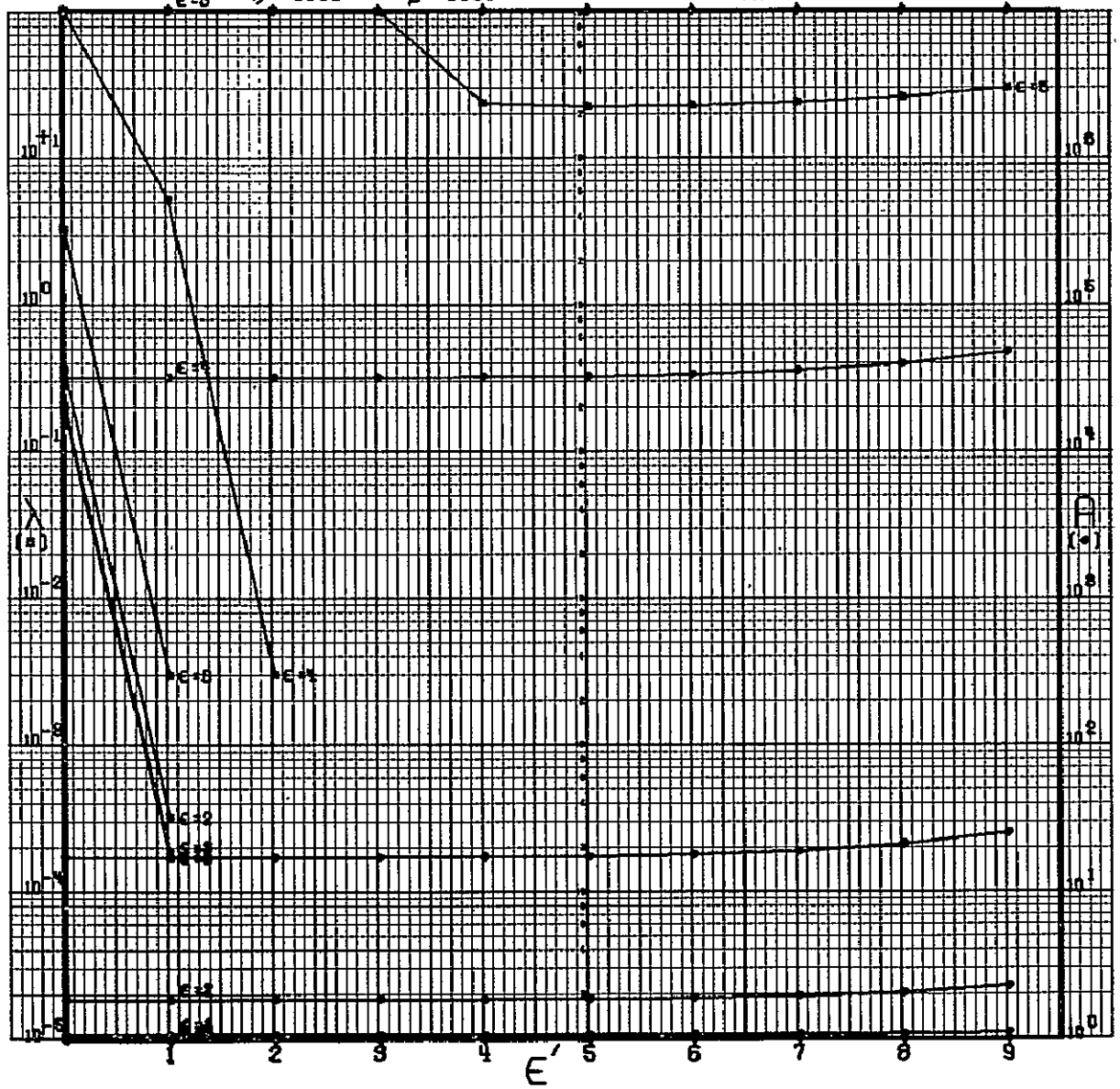
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = 0.001$

$\beta = 1000$

(DRAWN BY AOPS, CODE 512, GSFC)



N = 19

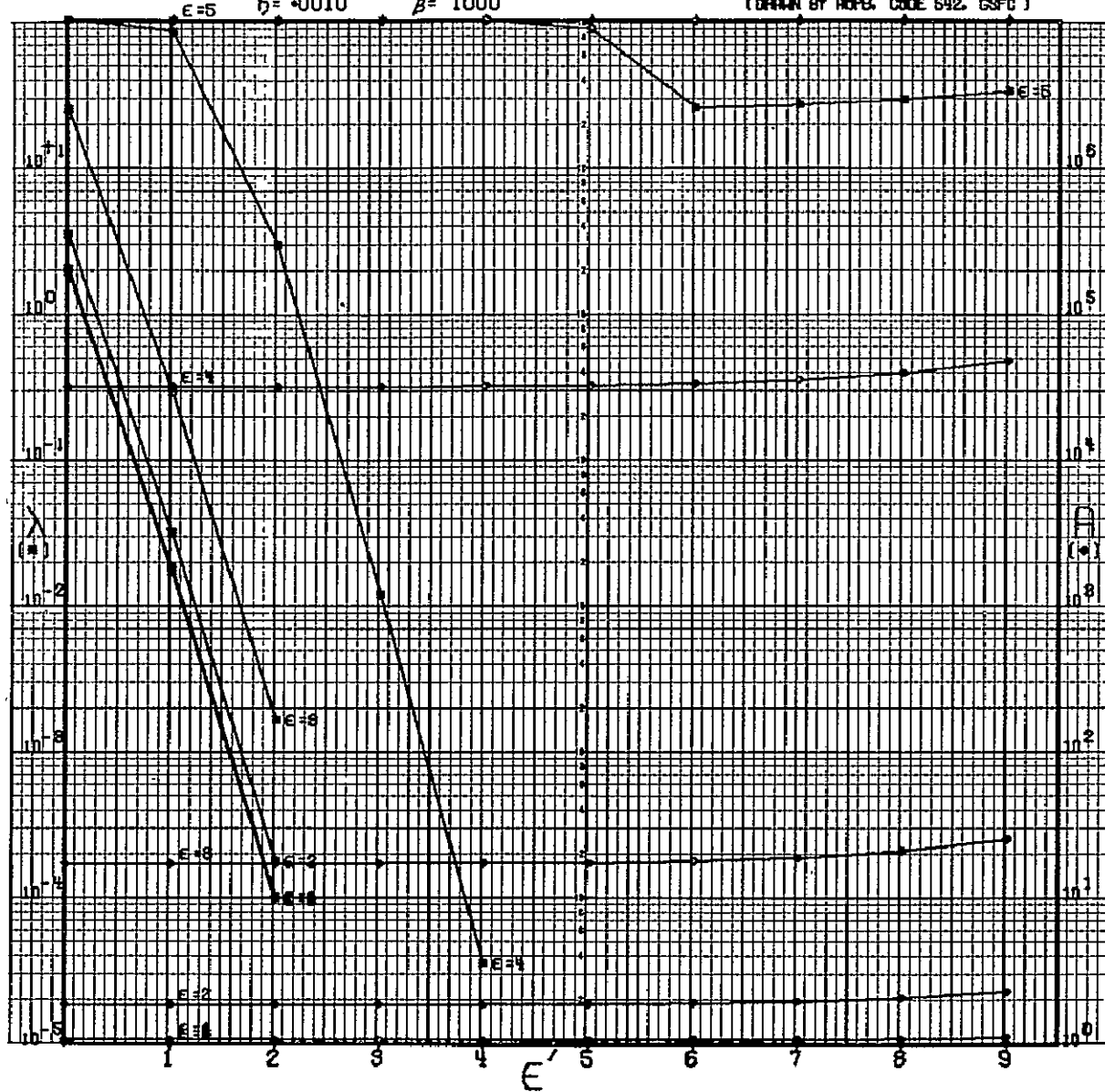
CODE 1111100110010100000

GSFC STANDARD

$\epsilon = 5$ $\eta = +0010$

$\beta = 1000$

(DRAWN BY ACPB, CODE 542, GSFC)



N=19

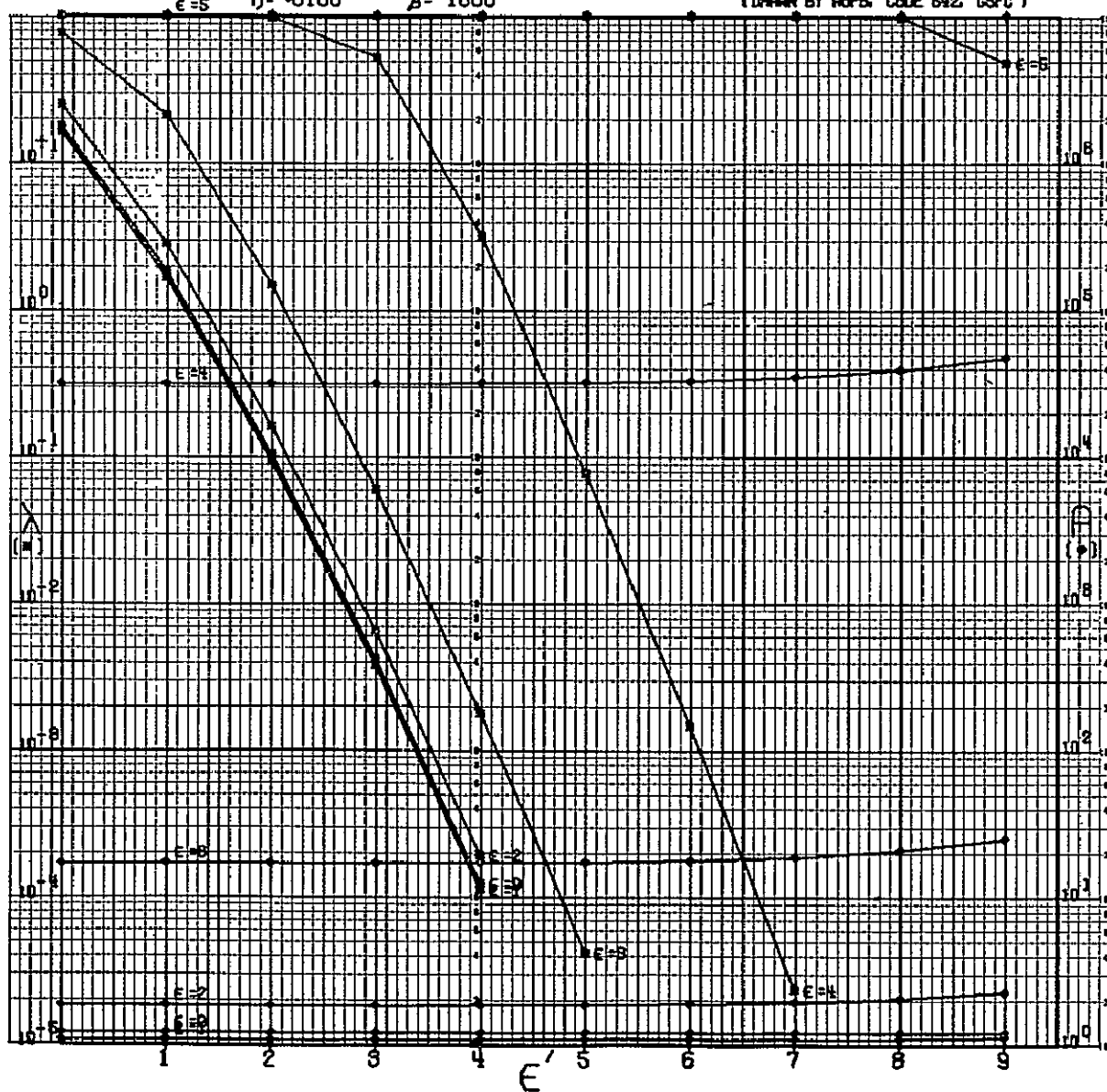
CODE 1111100110010100000

GSFC STANDARD

$\epsilon = 5$ $\eta = +0100$

$\beta = 1000$

(DRAWN BY ACPB, CODE 6W2, GSFC)



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N=19

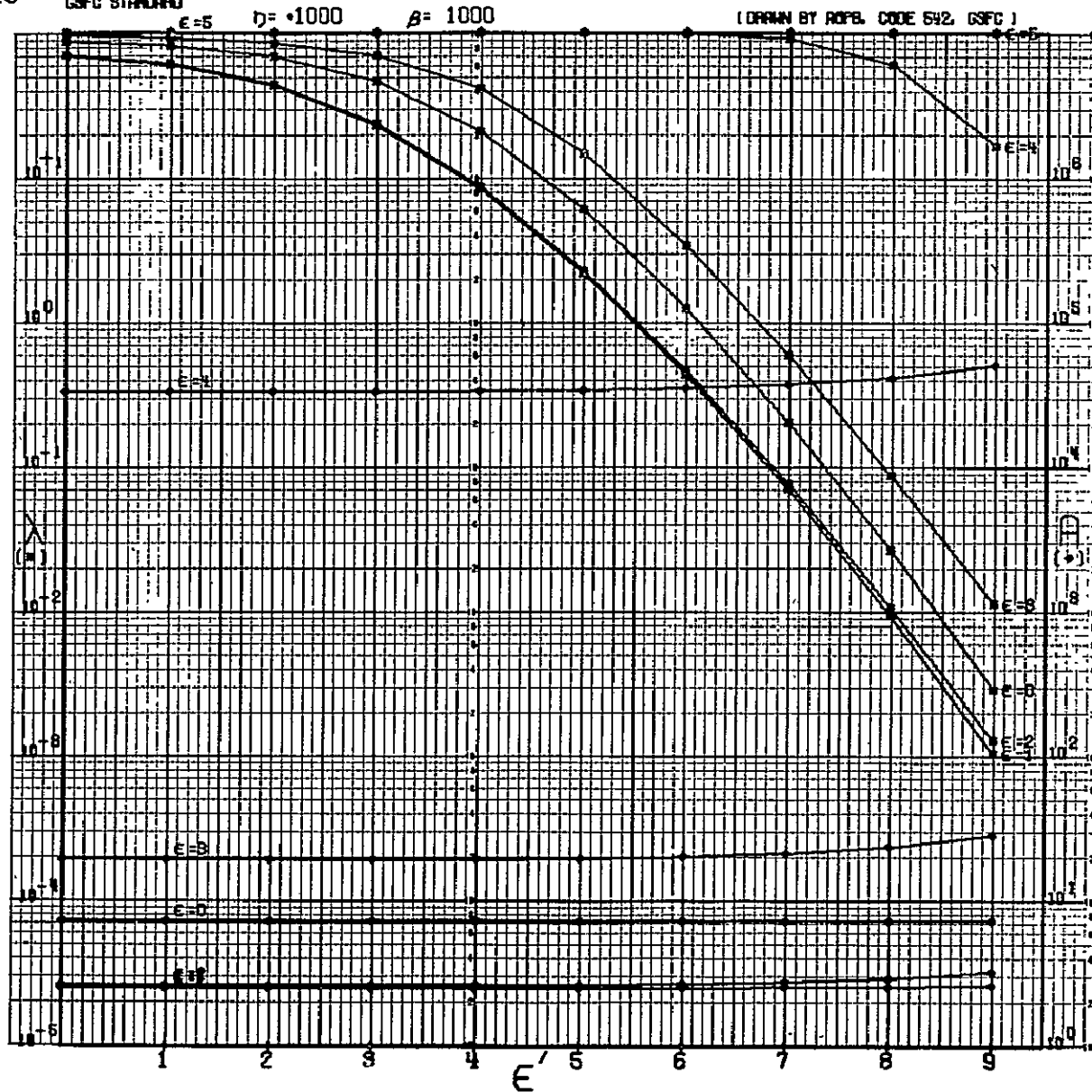
CODE 1111100110010100000

GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY AOPB. CODE 542. GSFC)



N=19

CODE 1111100110010100000

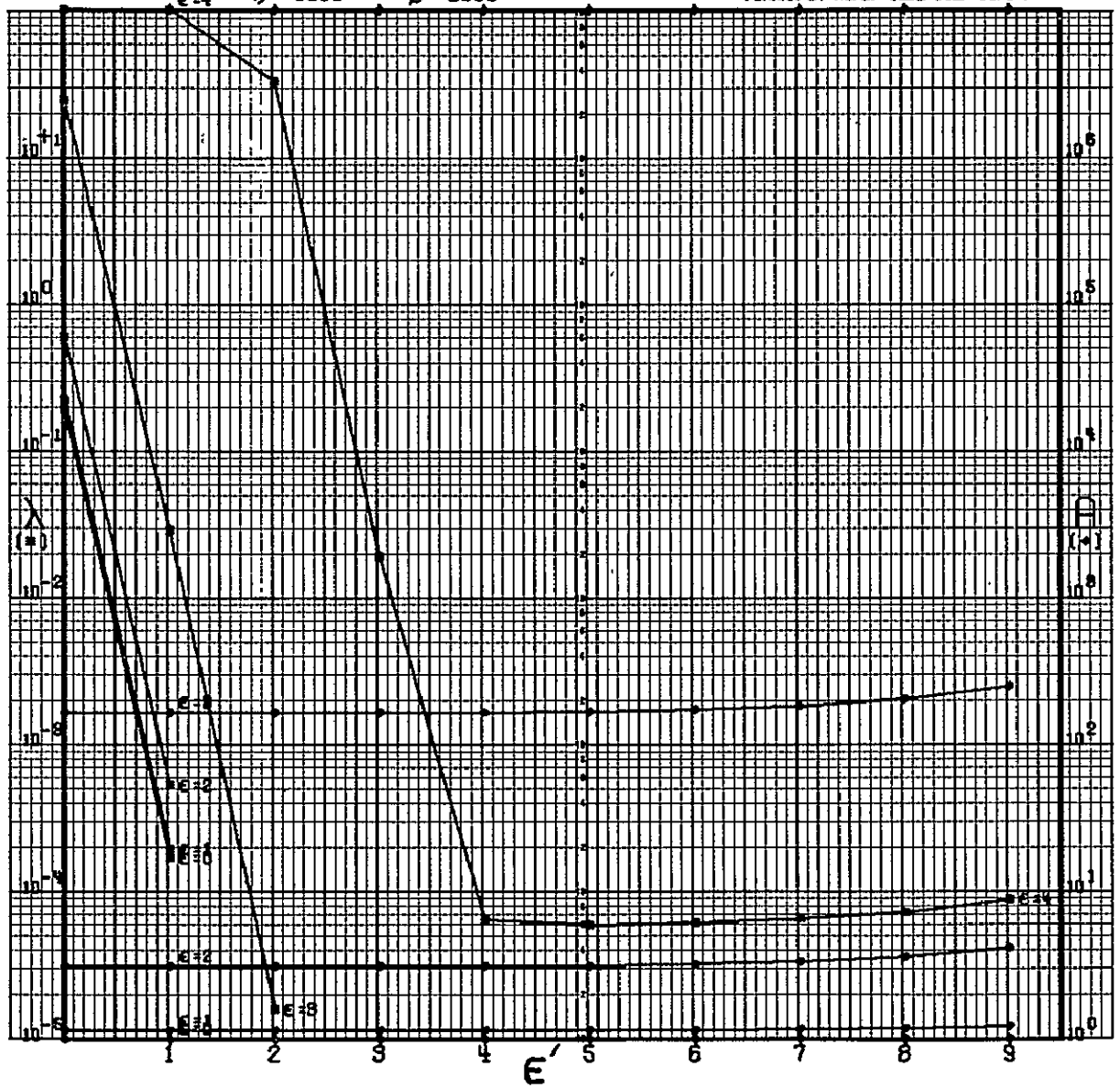
GBFC STANDARD

$\epsilon = 4$

$\eta = -0001$

$\beta = 2000$

(DRAWN BY ROPB CODE 512 GBFC)



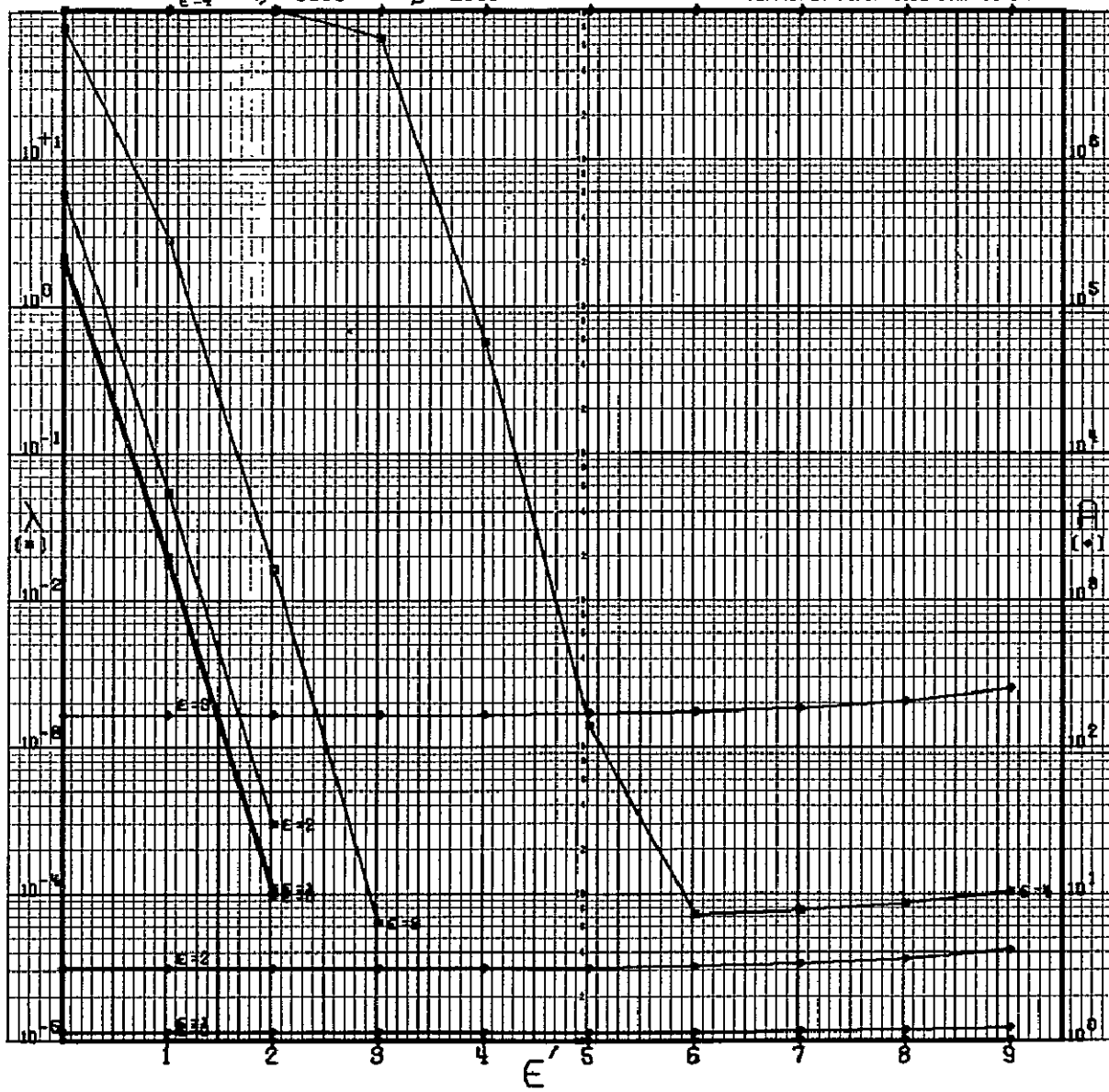
N=19

CODE 1111100110010100000
GSFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY ROFS, CODE 542, GSFC)



N=19

CODE 1111100110010100000

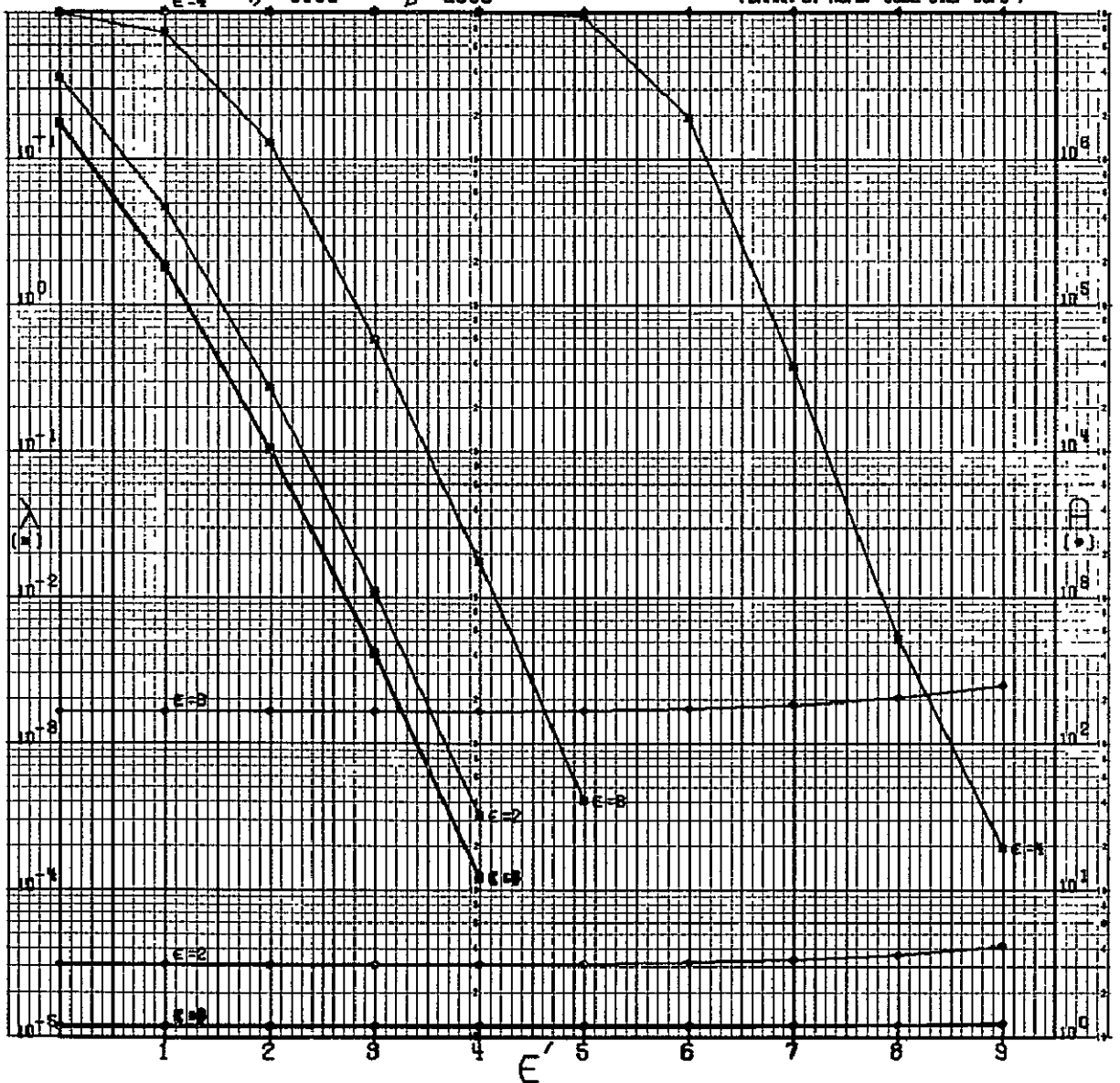
GSFC STANDARD

$\epsilon = 4$

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ROPEL CODE 542, GSFC)



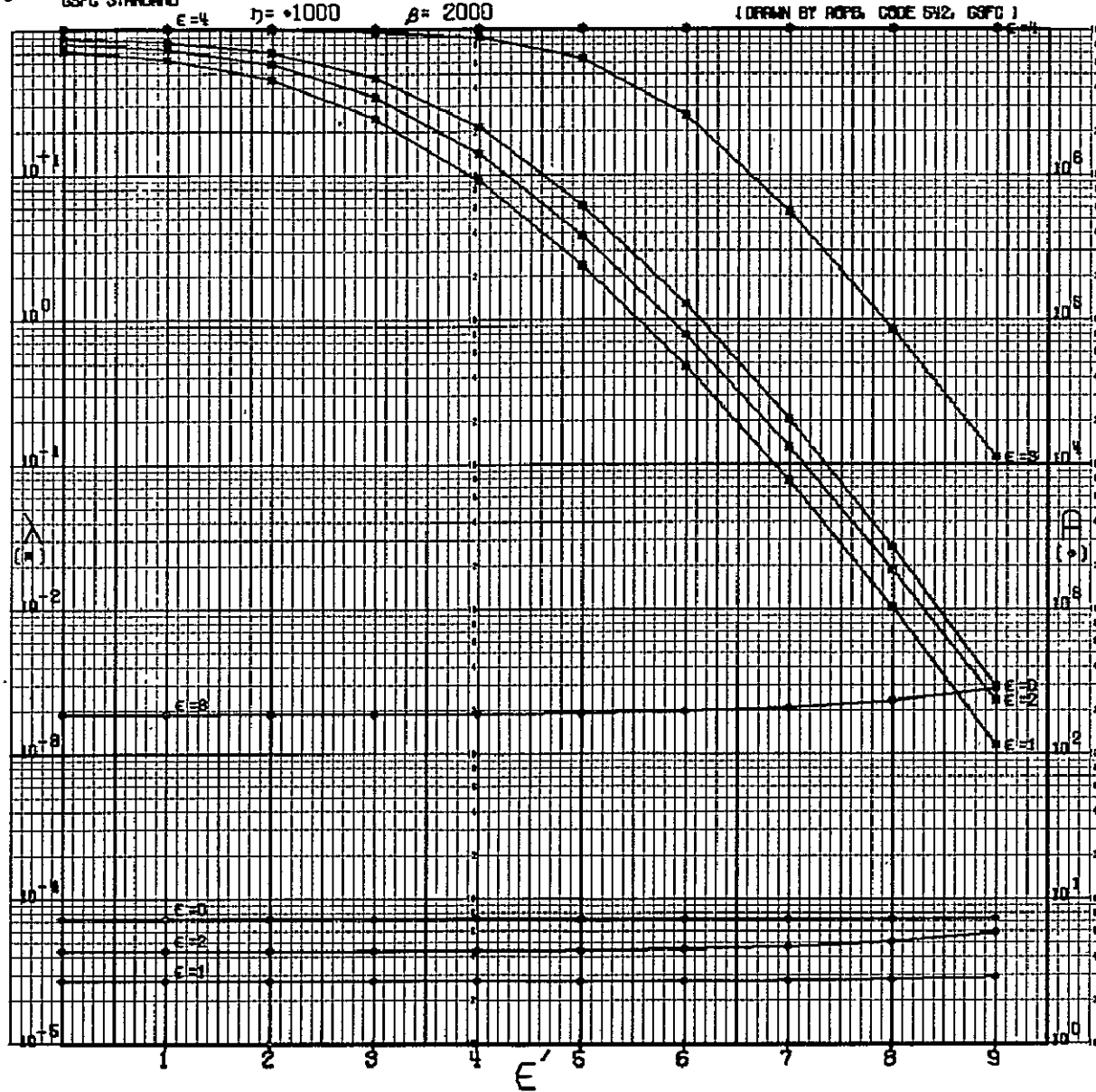
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +1000$

$\beta = 2000$

(DRAWN BY ROFG, CODE 542, GSFC)



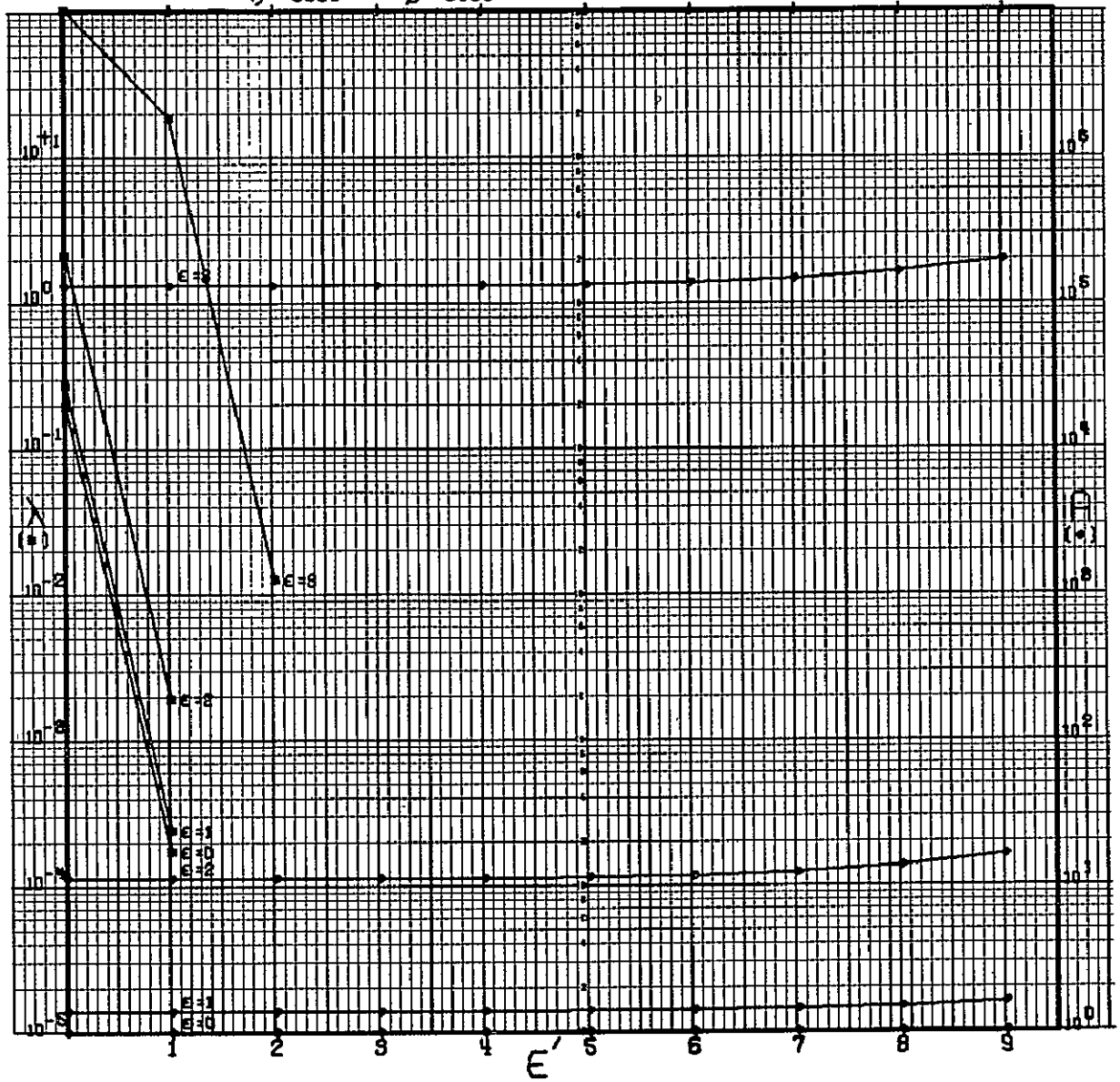
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +0001$

$\beta = 5000$

(DRAWN BY ROPB, CODE 642, GSFC)



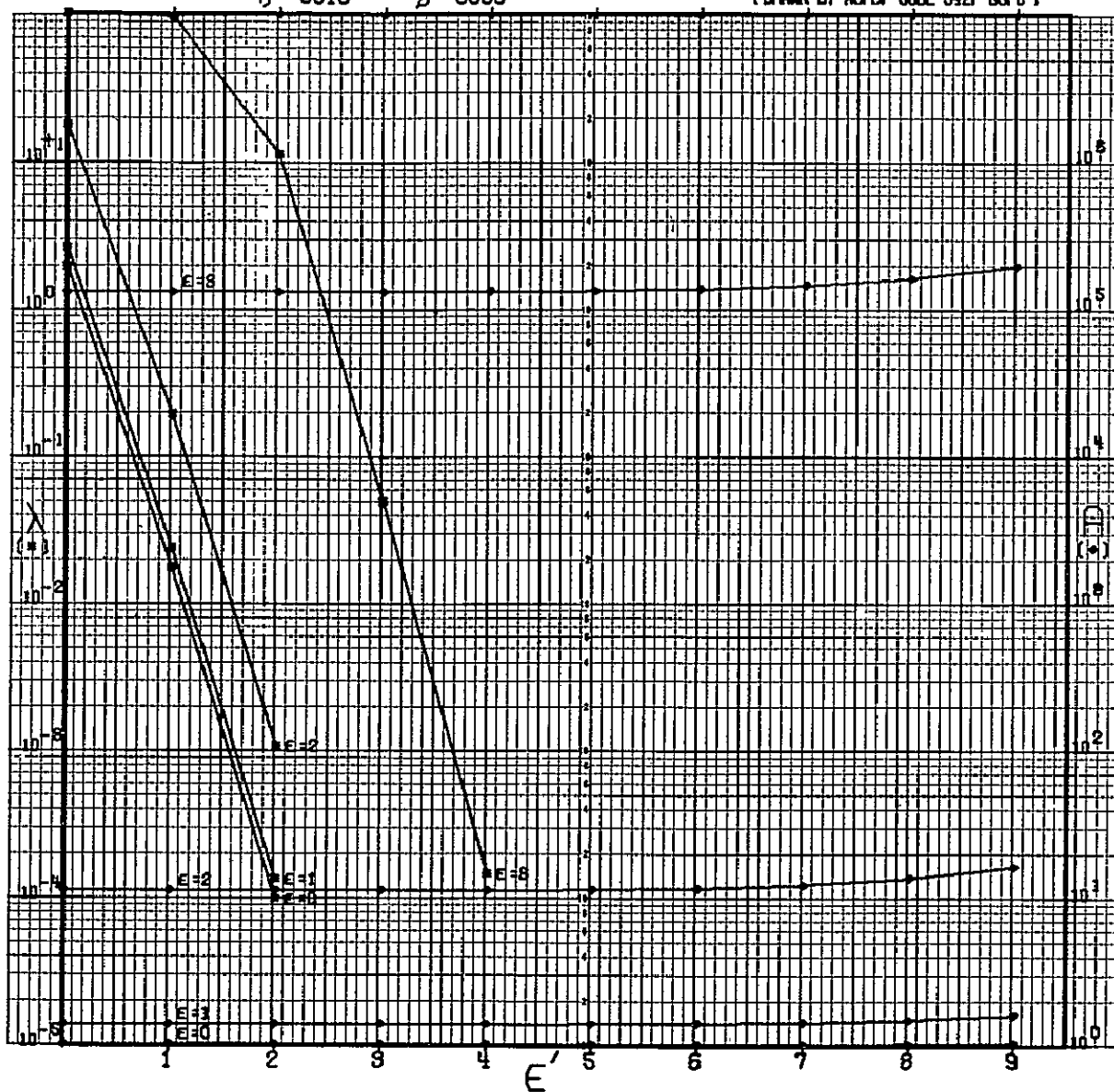
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



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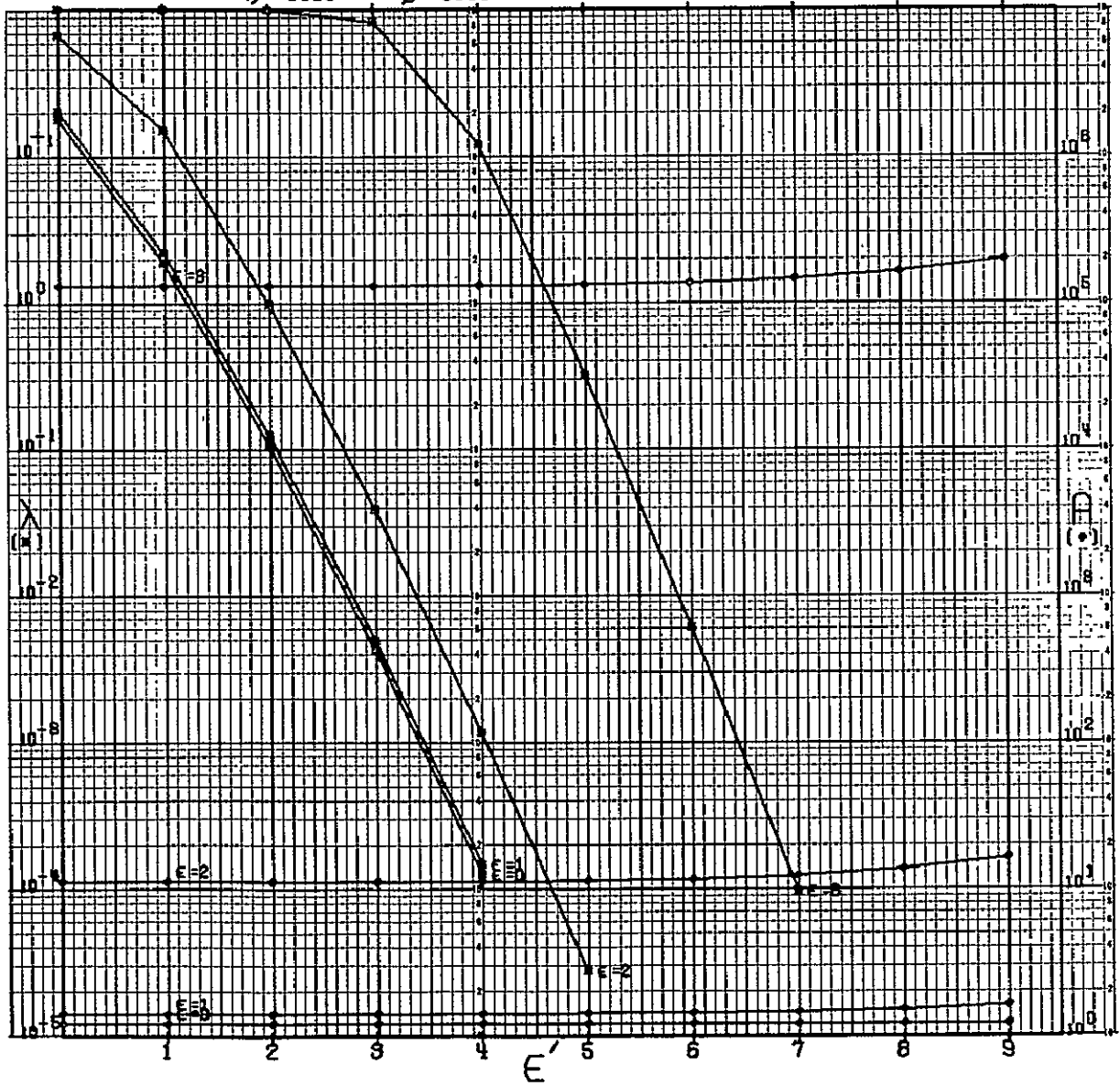
N=19

CODE 11111001100101000000
GSFC STANDARD

$\sigma = 0.100$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



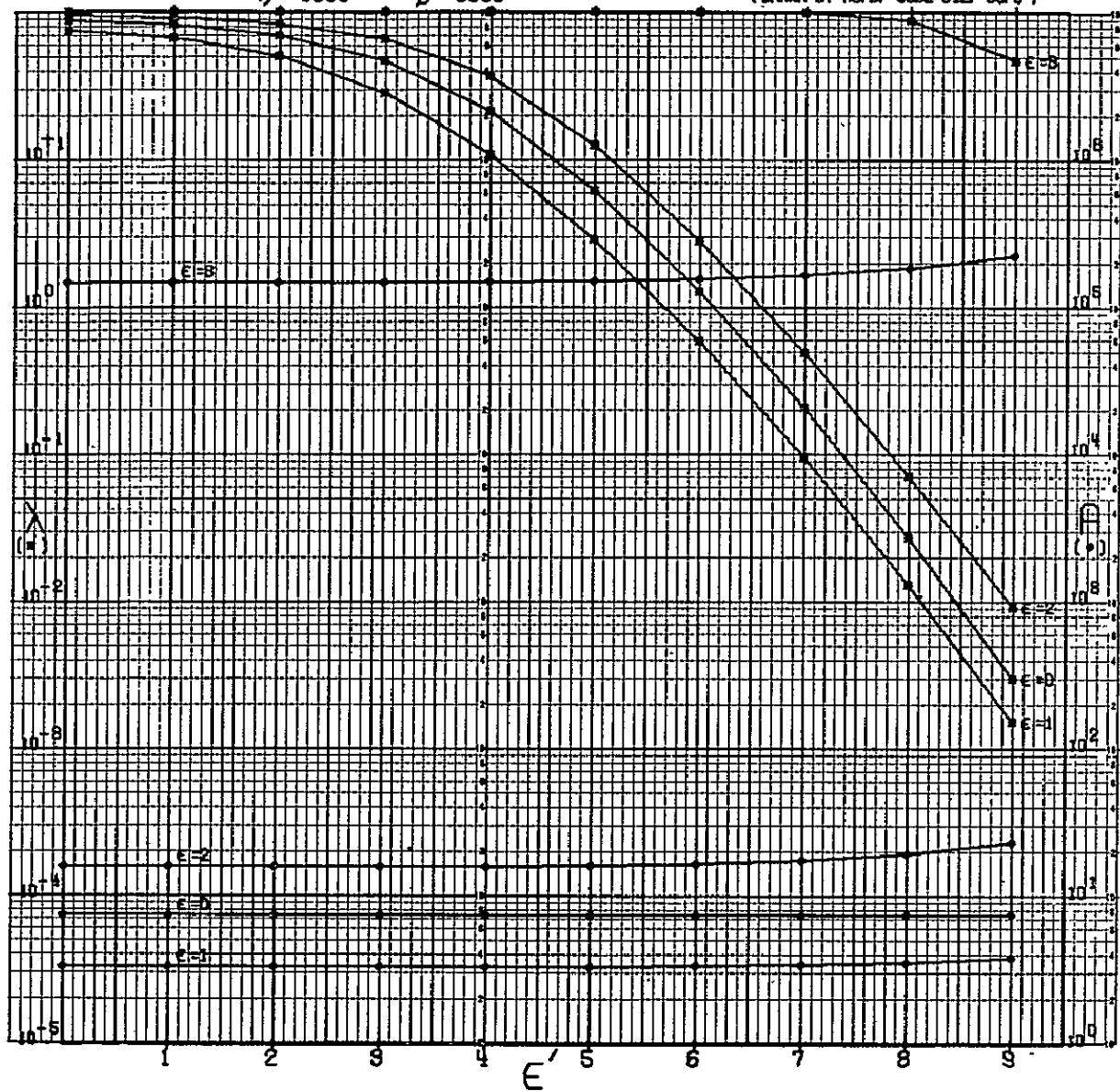
N = 19

CODE 1111100110010100000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(PARAM BY ROPS, CODE 512, GSFC)



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X

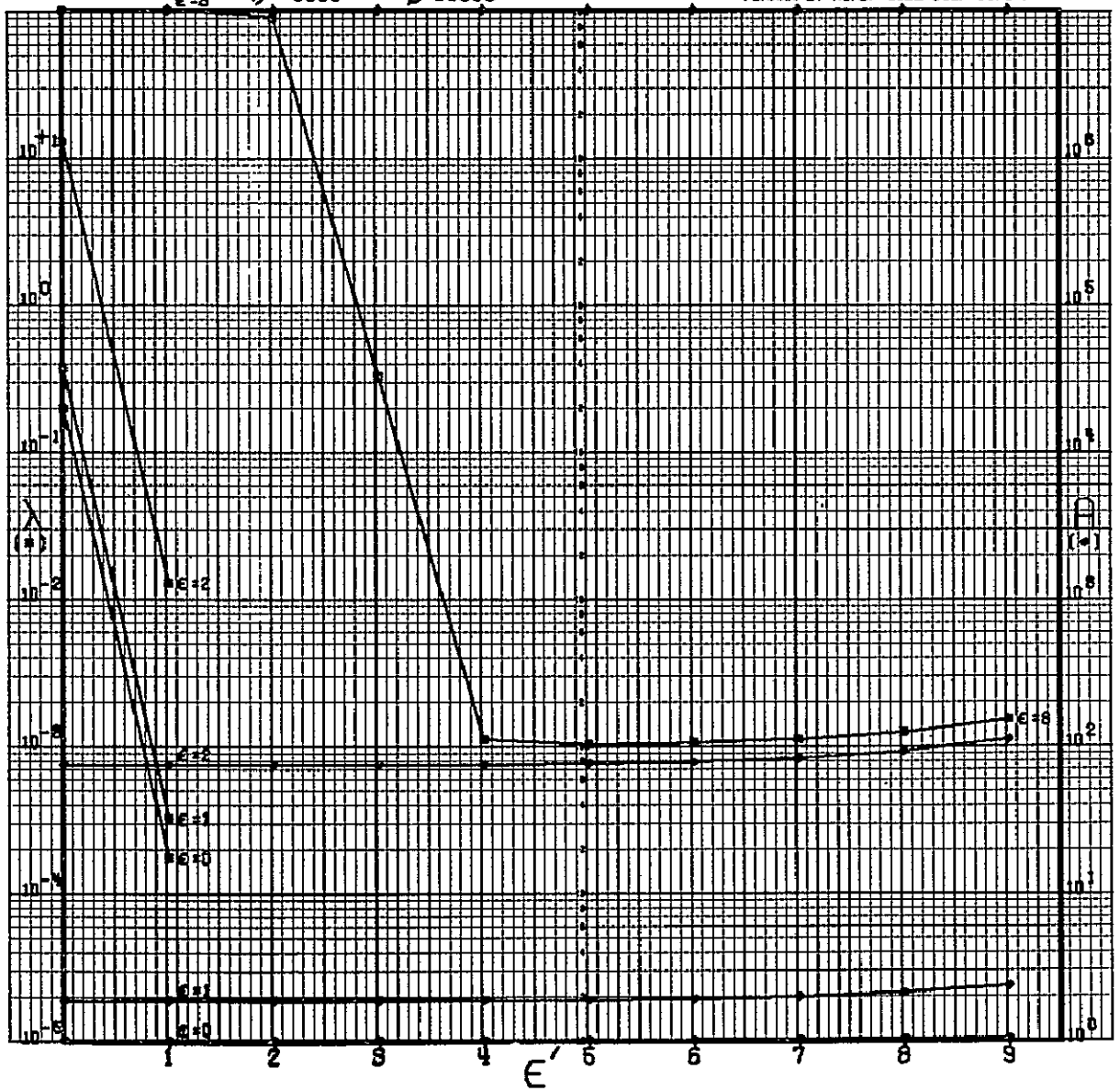
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = -0.001$

$\beta = 10000$

(DRAWN BY ROPE, CODE 512, GSFC)



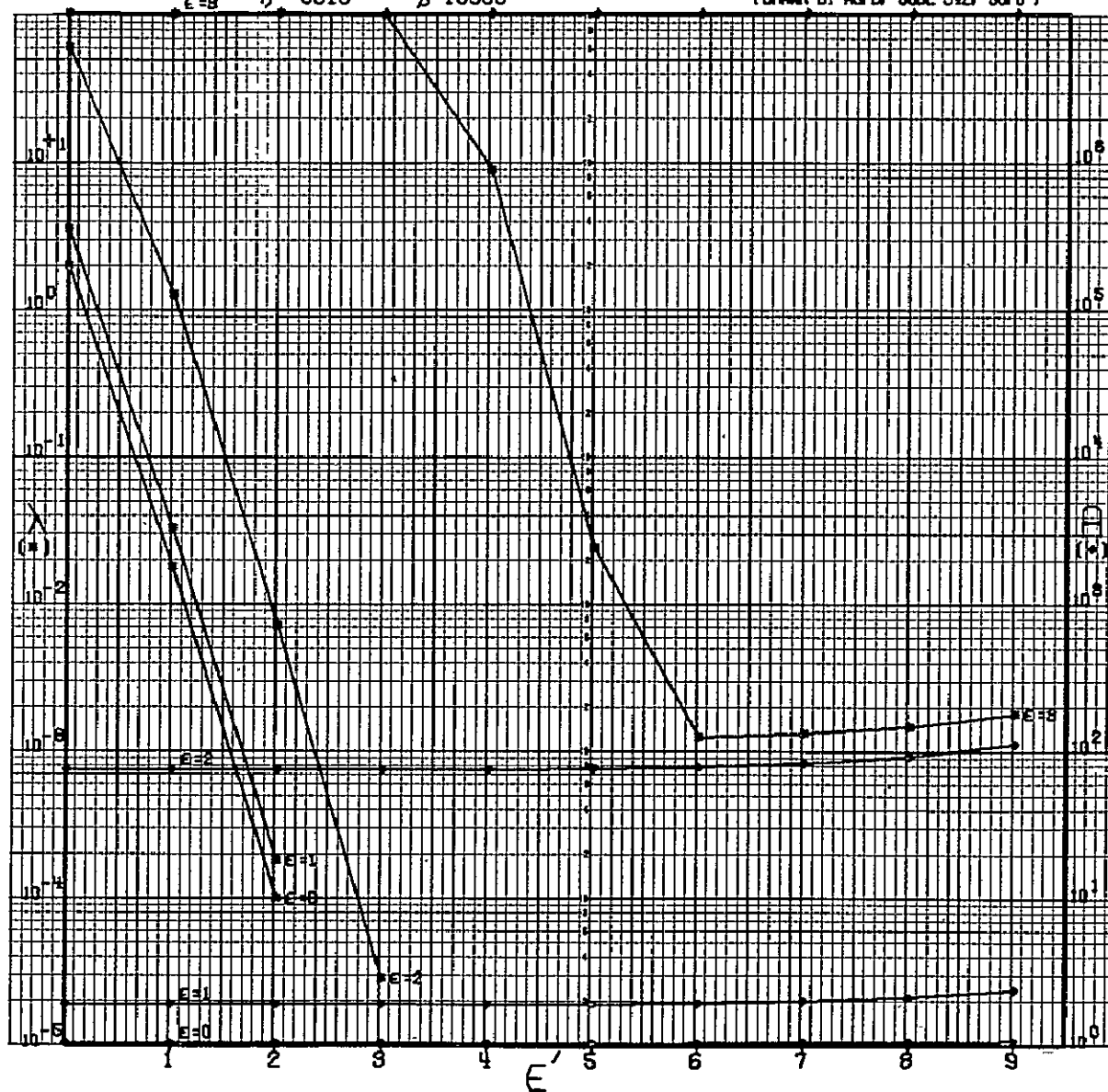
N=19

CODE 1111100110010100000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPEL CODE 542, GSFC)



N=19

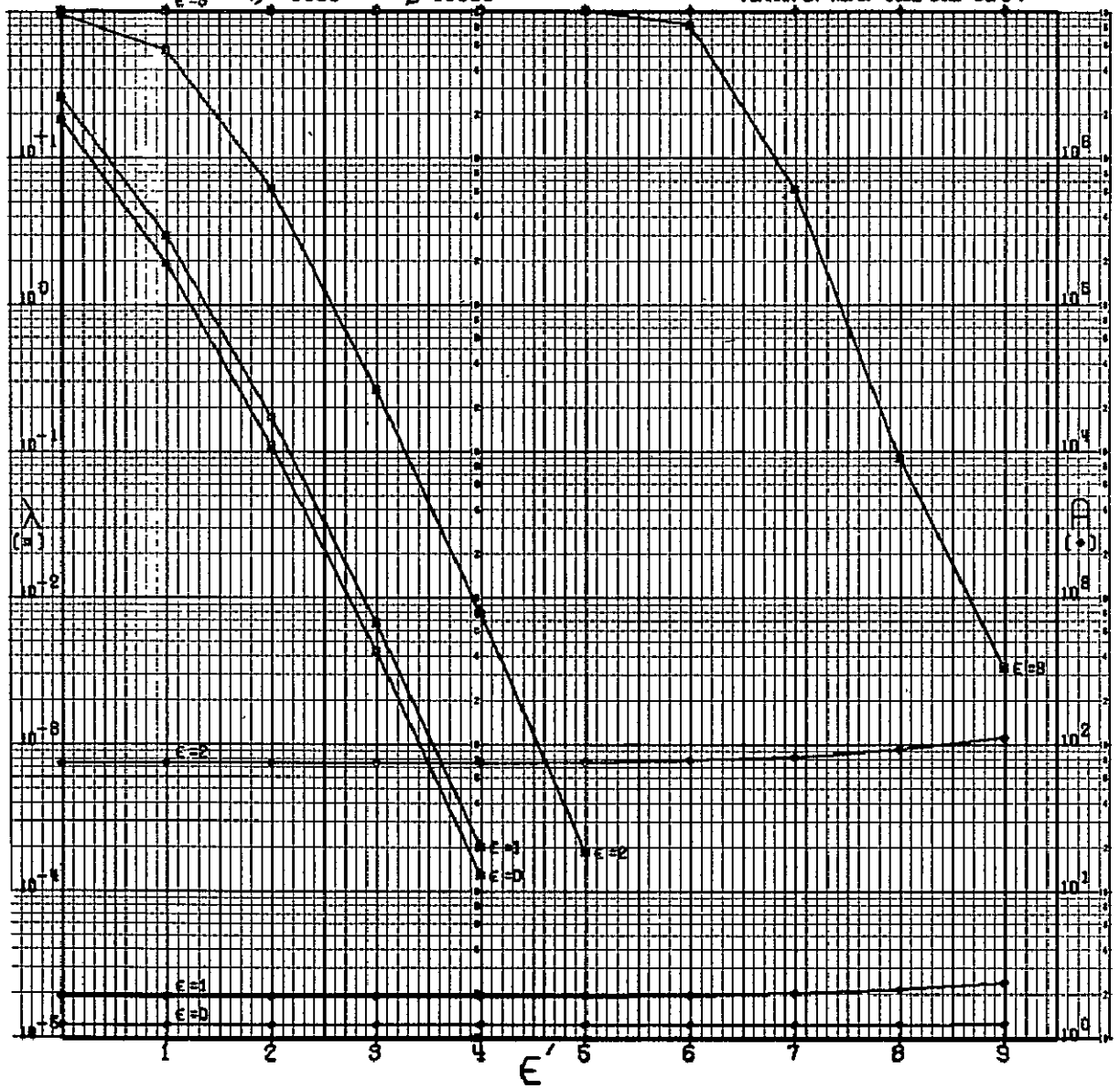
CODE 1111100110010100000

GSFC STANDARD

$\eta = +0100$

$\beta = 10000$

(DRAWN BY RCFB, CODE 542, GSFC)



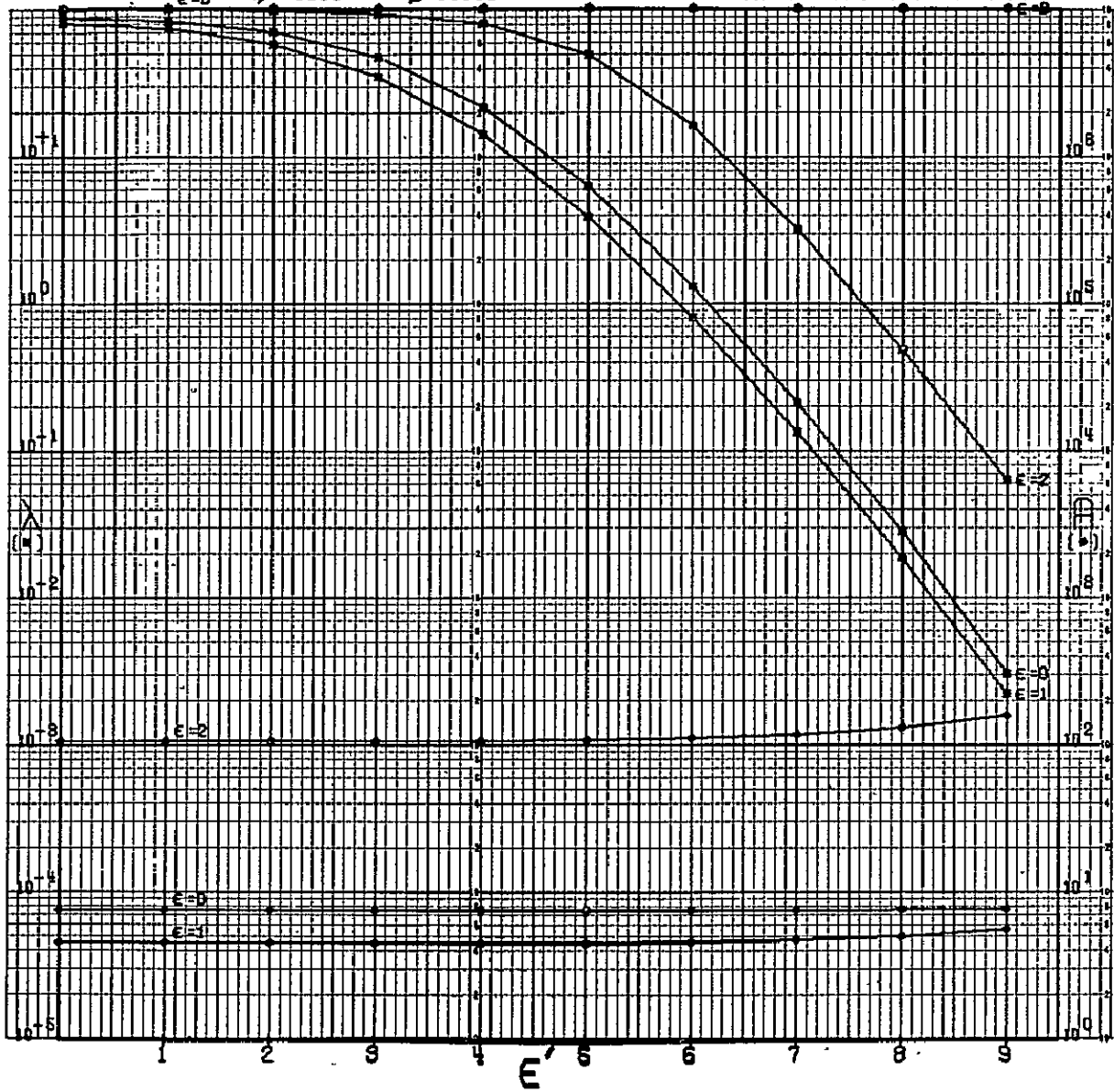
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +1000$

$\beta = 10000$

(DRAWN BY ADPBL CODE 542, GSFC)



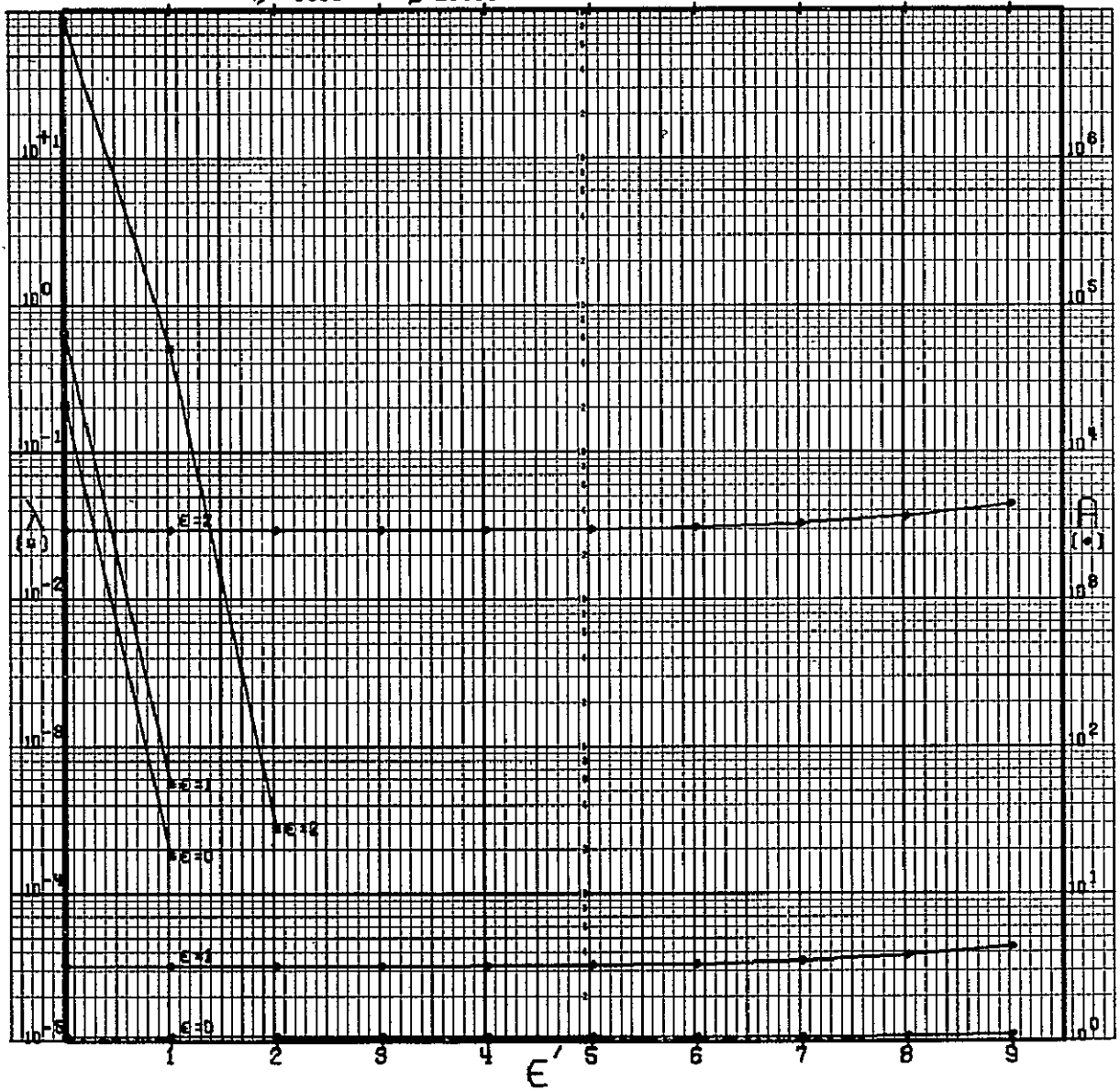
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



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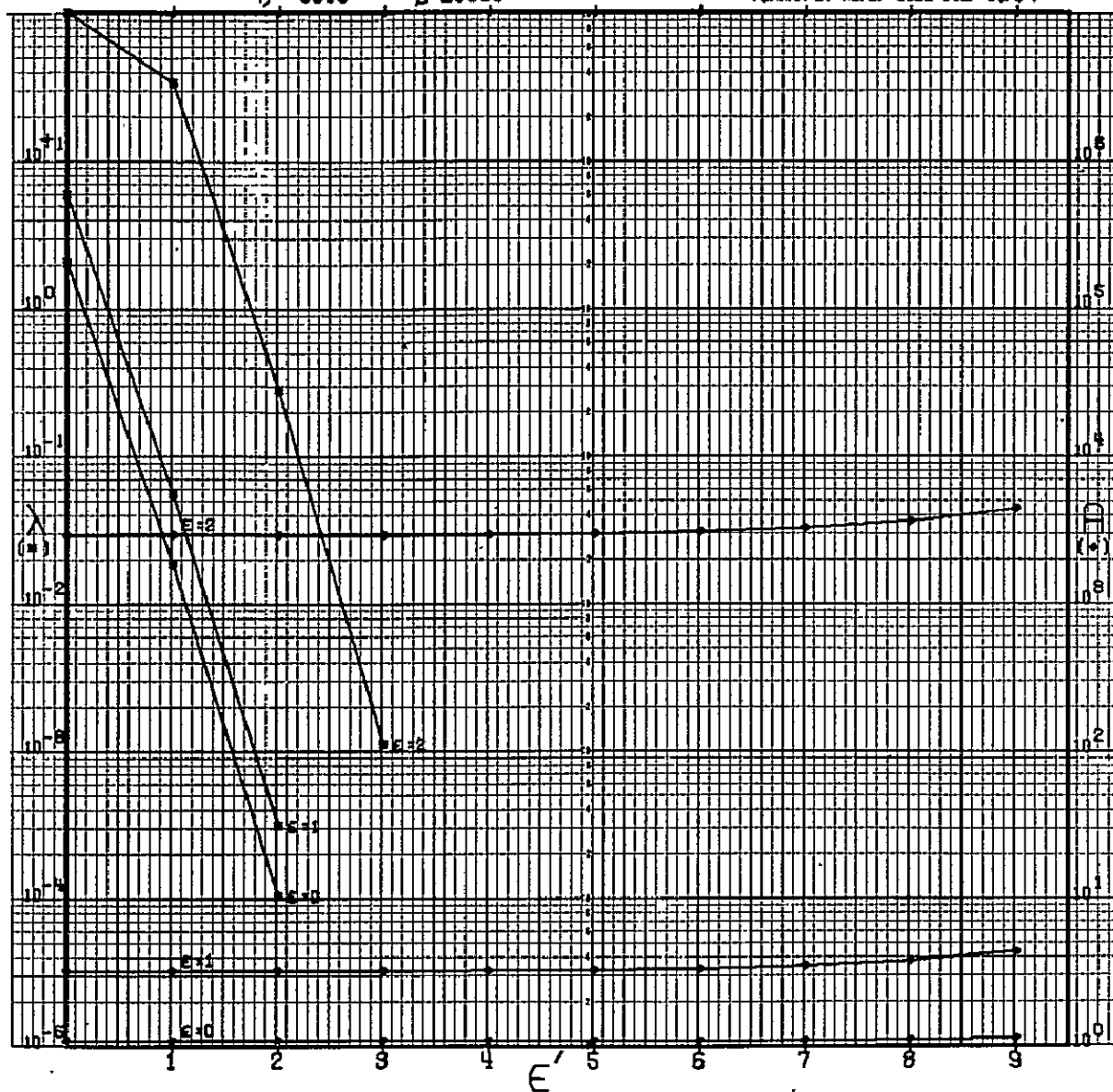
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = +0010$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



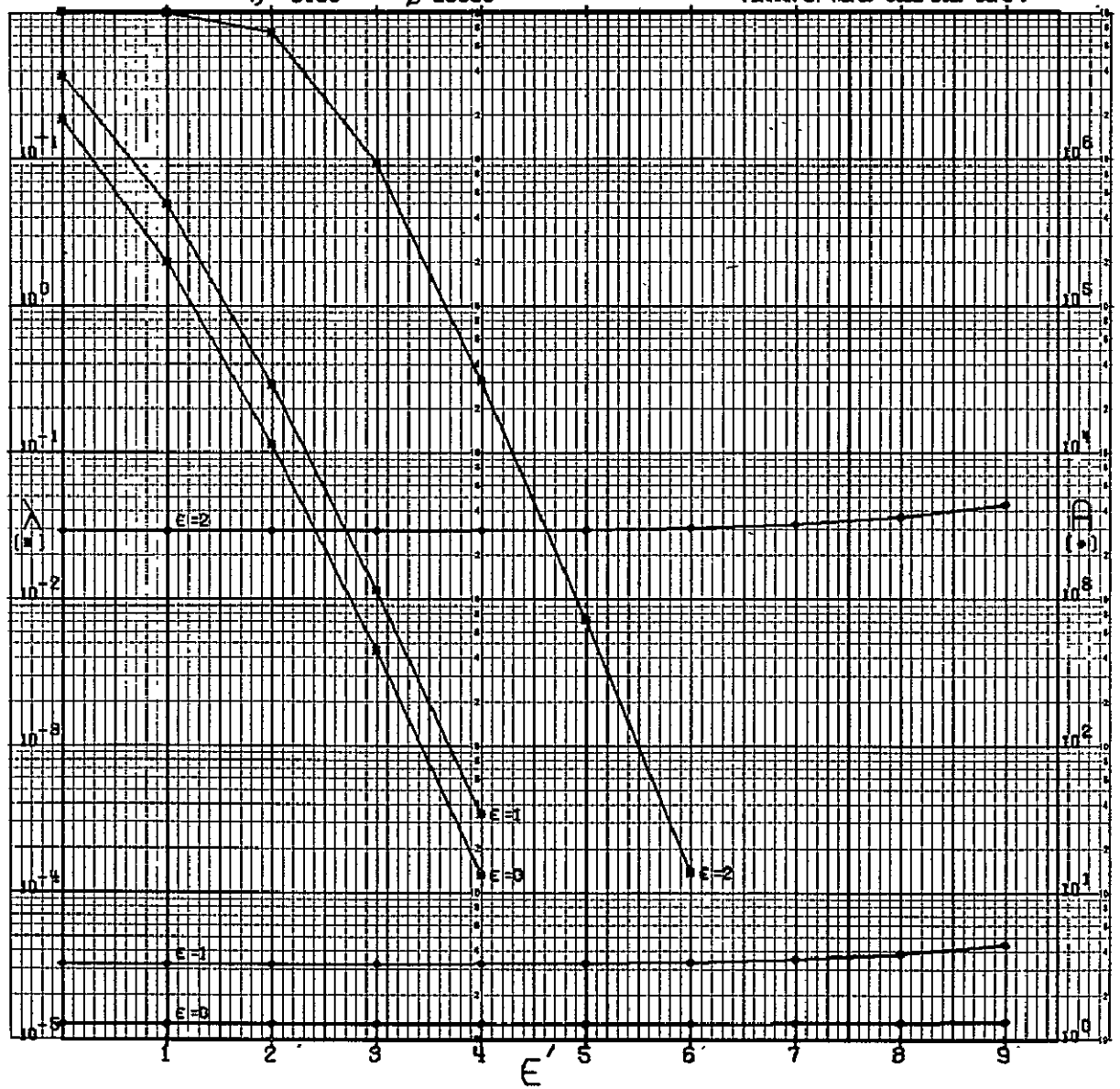
N=19

CODE 1113100110010100000
GSFC STANDARD

$\eta = -0.100$

$\beta = 20000$

(DRAWN BY AOPB, CODE 542, GSFC)



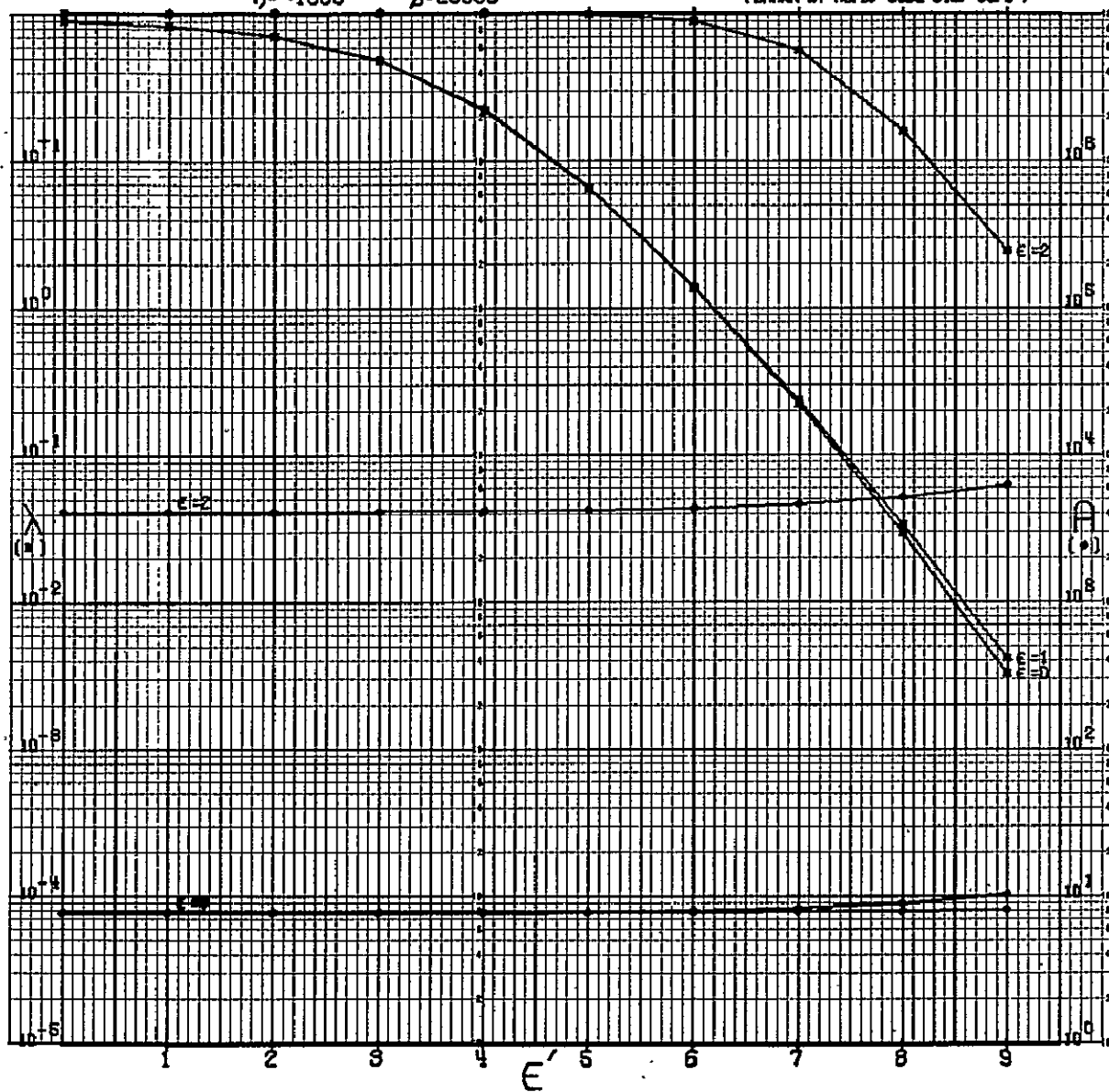
N=19

CODE 1111100110010100000
GSFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ACPB, CODE 542, GSFC)



$$N = 20$$

N=20

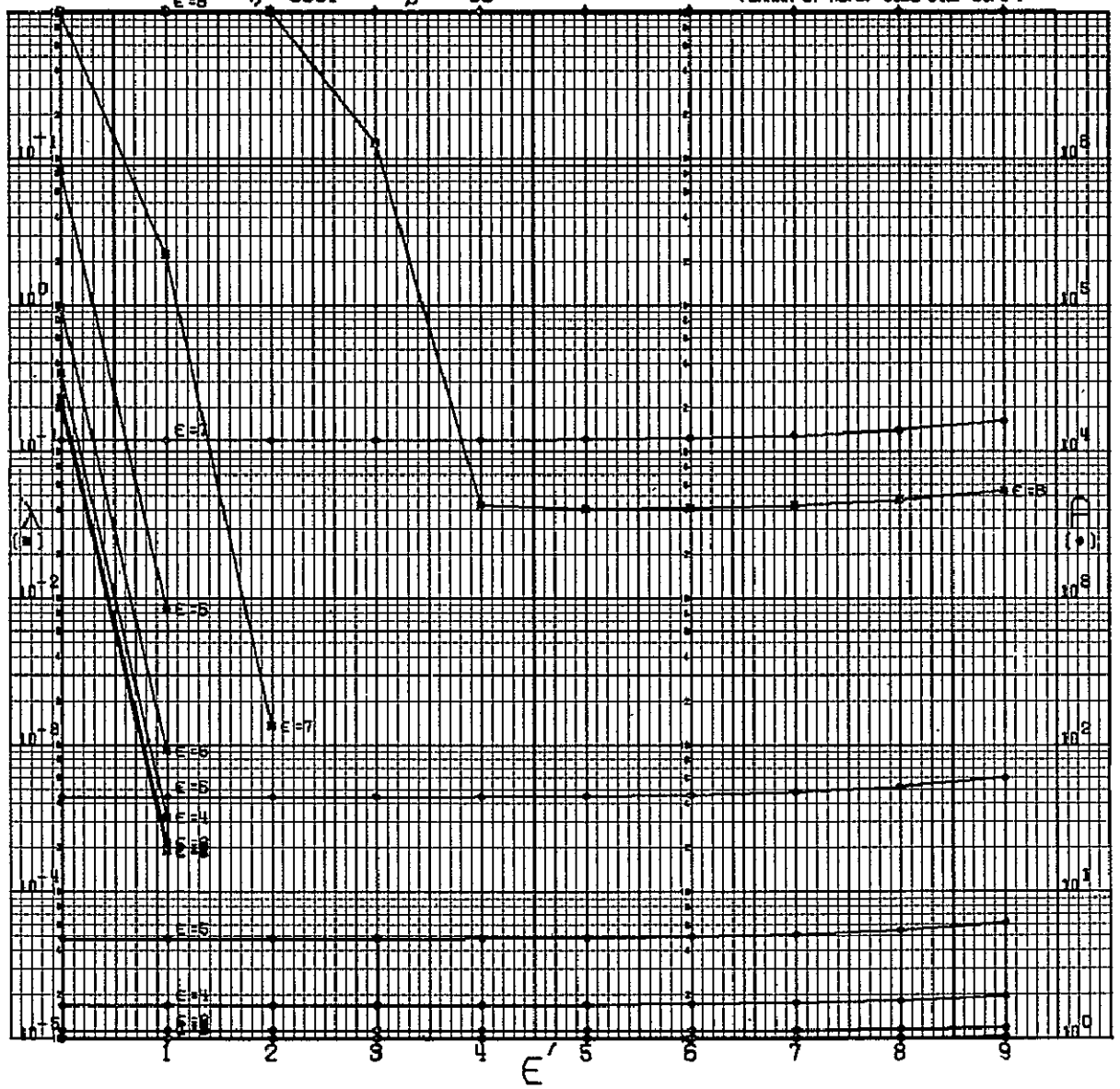
CODE 1110130111000100000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 50$

(DRAWN BY ROPE, CODE 542, GSFC)



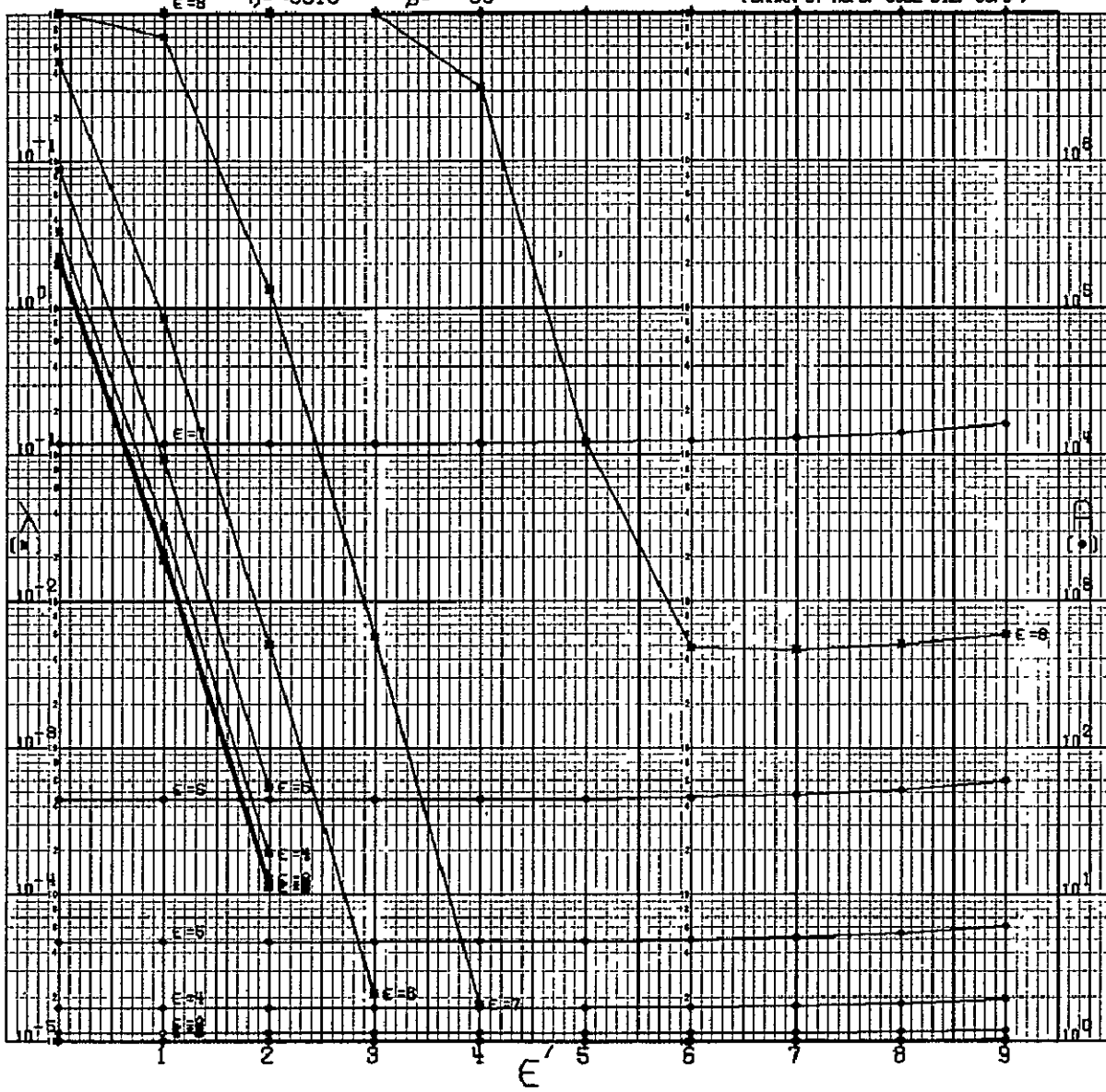
N=20

CODE 11101101111000100000
GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY ROPB. CODE 542. GSFC)



N = 20

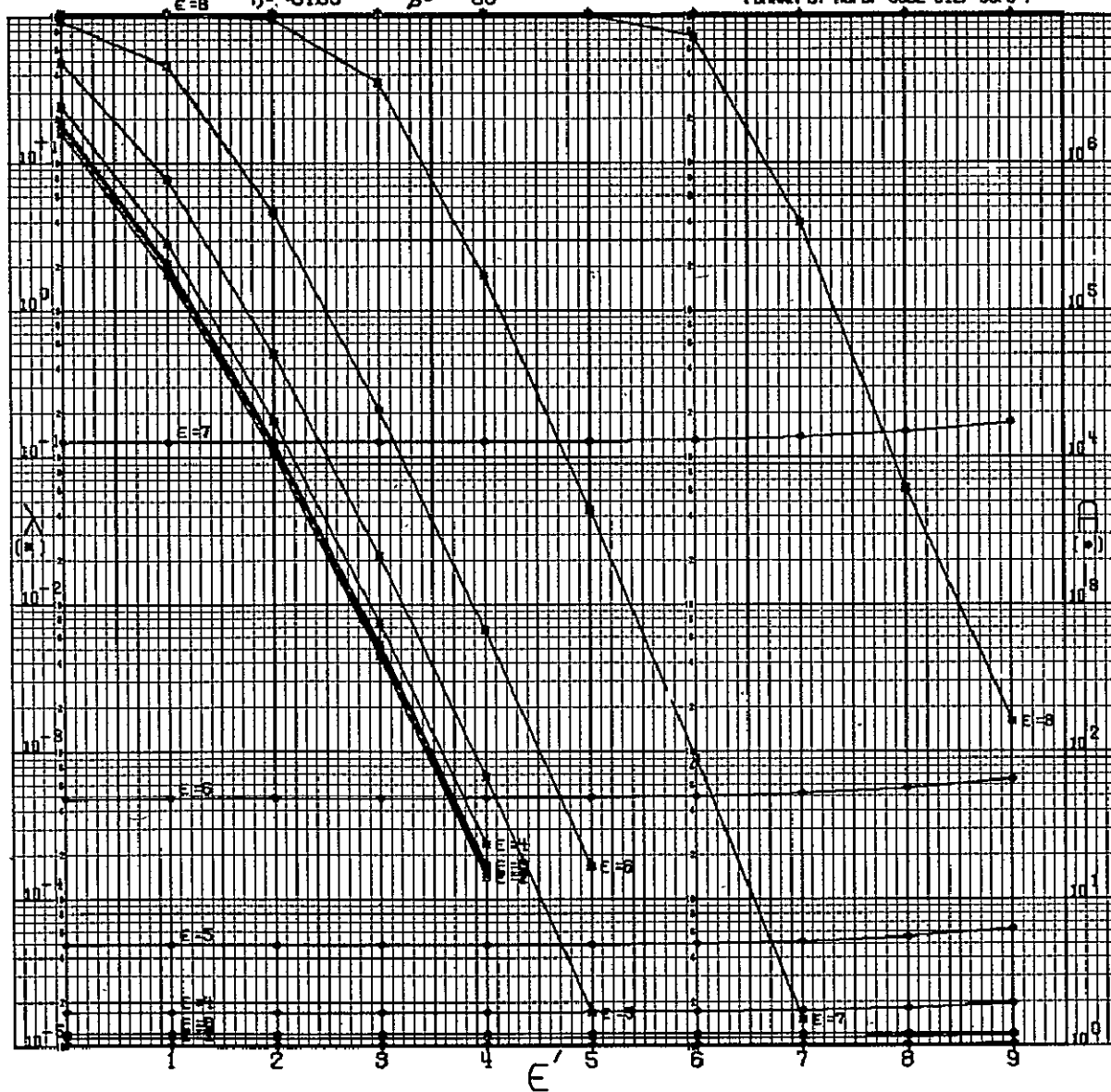
CODE 11101101111000100000

GSFC STANDARD

$\eta = -0.100$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 20

CODE 11101101111000100000

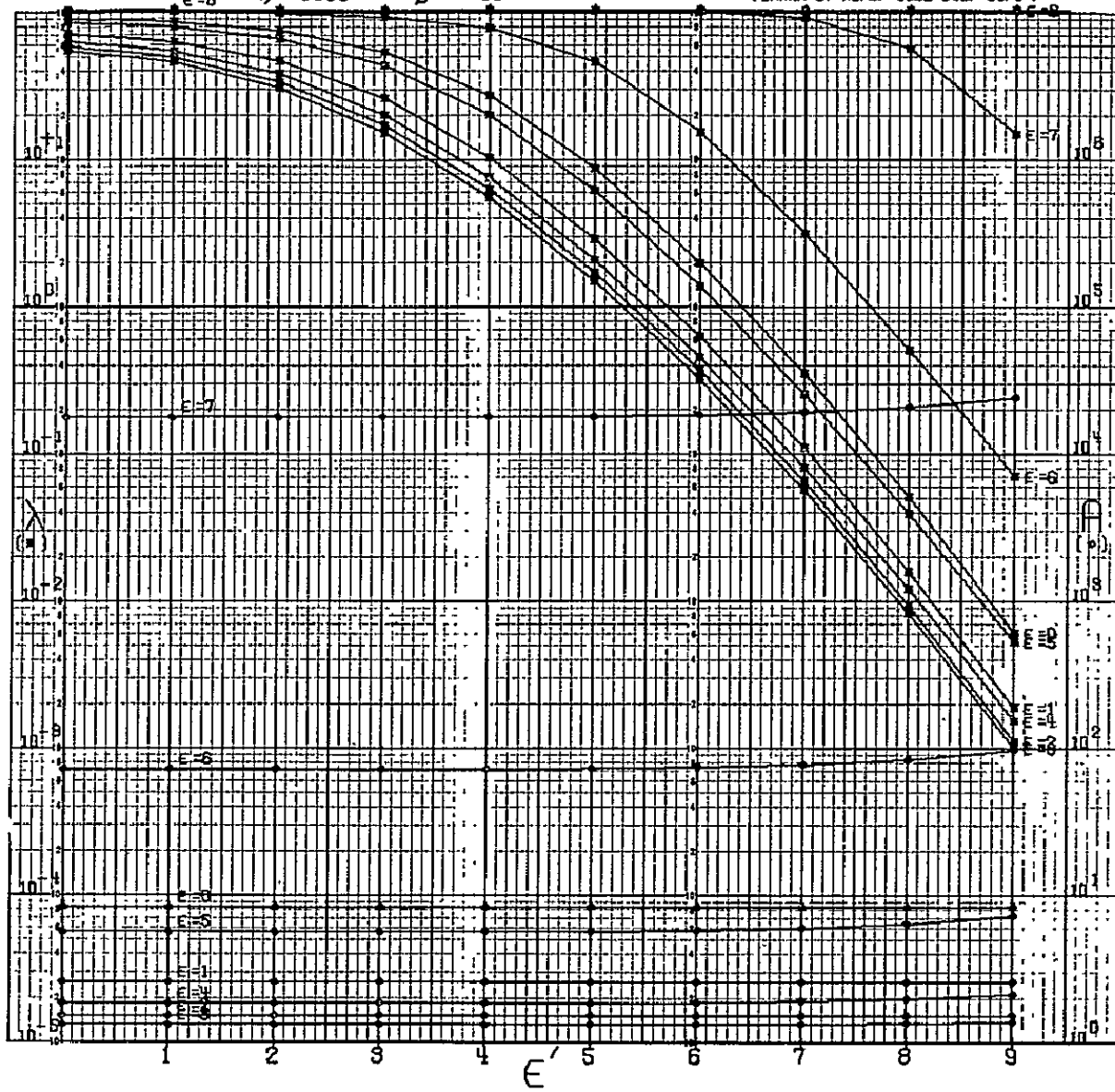
GSFC STANDARD

$\epsilon = 8$

$\eta = 1000$

$\beta = 50$

(DRAWN BY ROPB, CODE 542, GSFC)



N=20

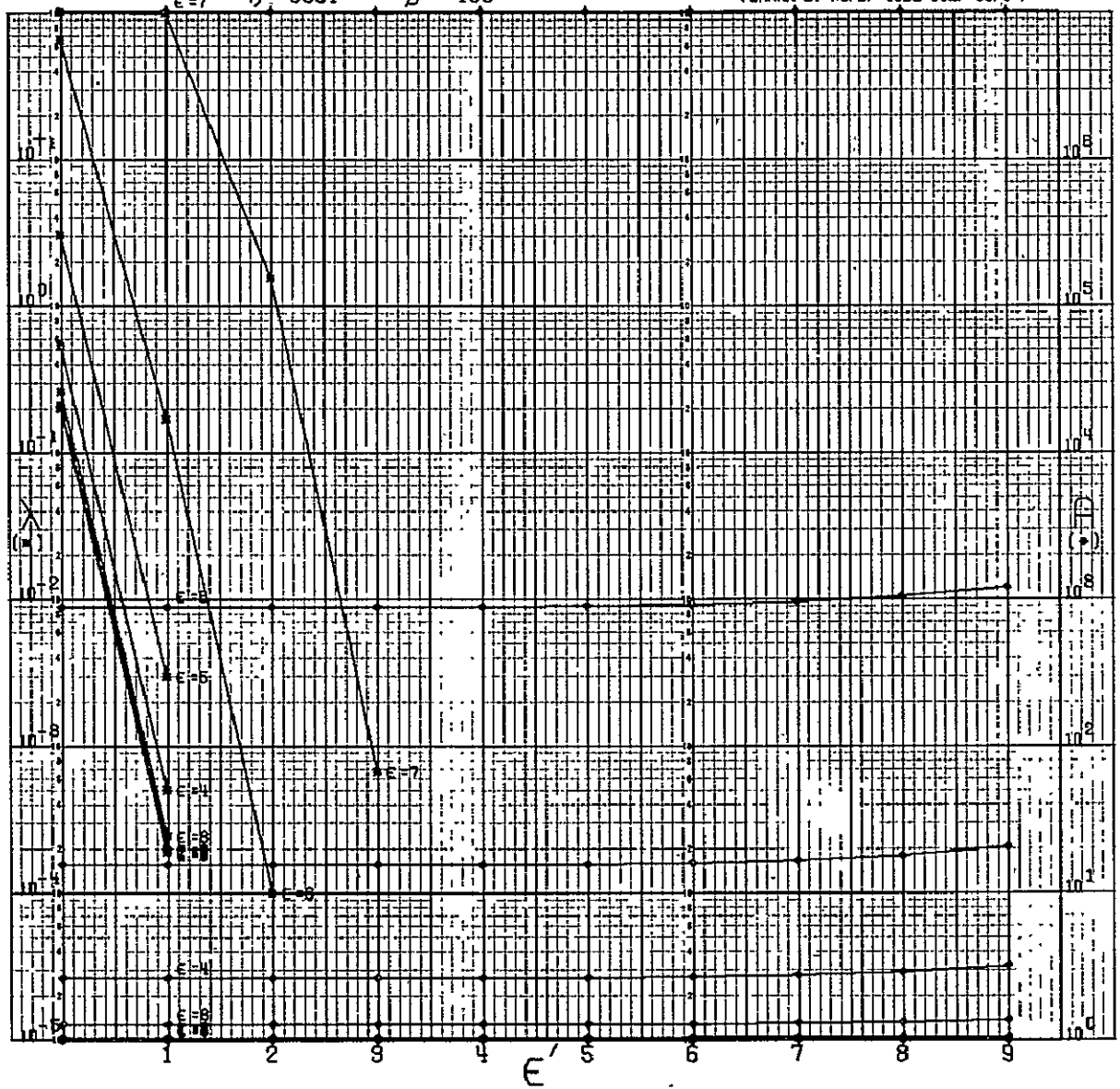
CODE 11101101111000100000
GSFC STANDARD

$\epsilon = 7$

$\eta = .0001$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



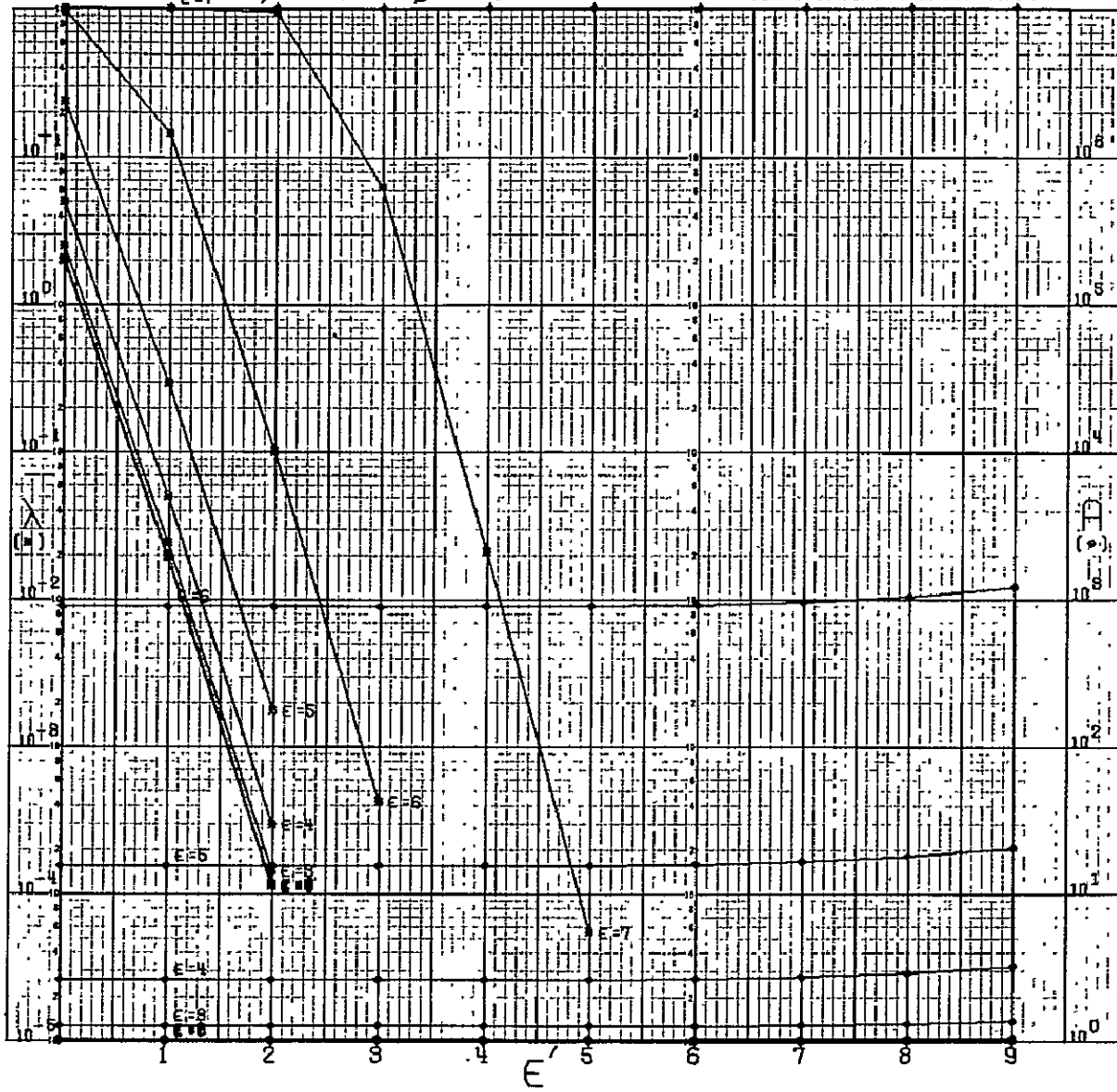
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ADPB, CODE 542, GSFC)



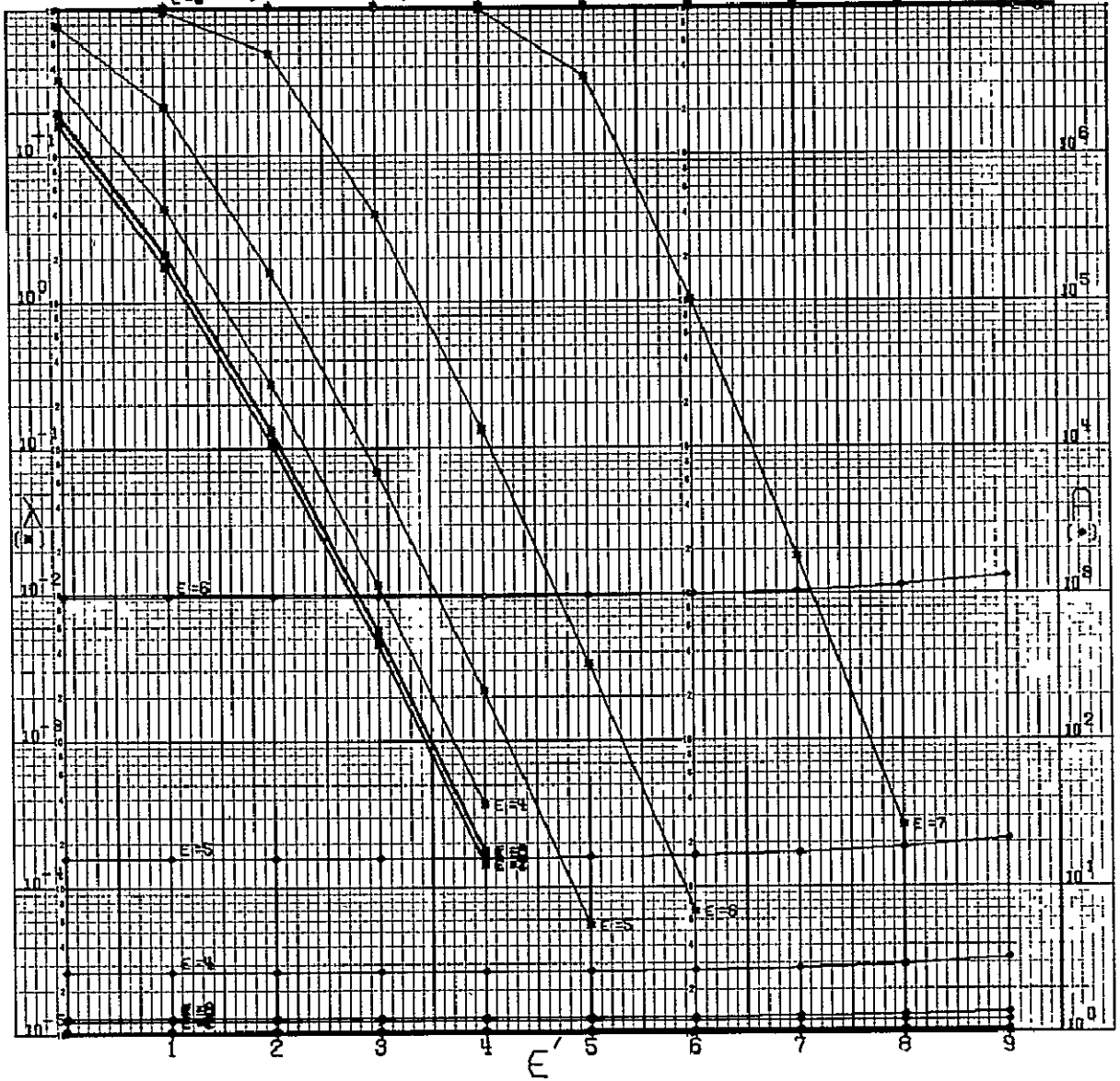
N = 20

CODE 1110110111000100000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0.100$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



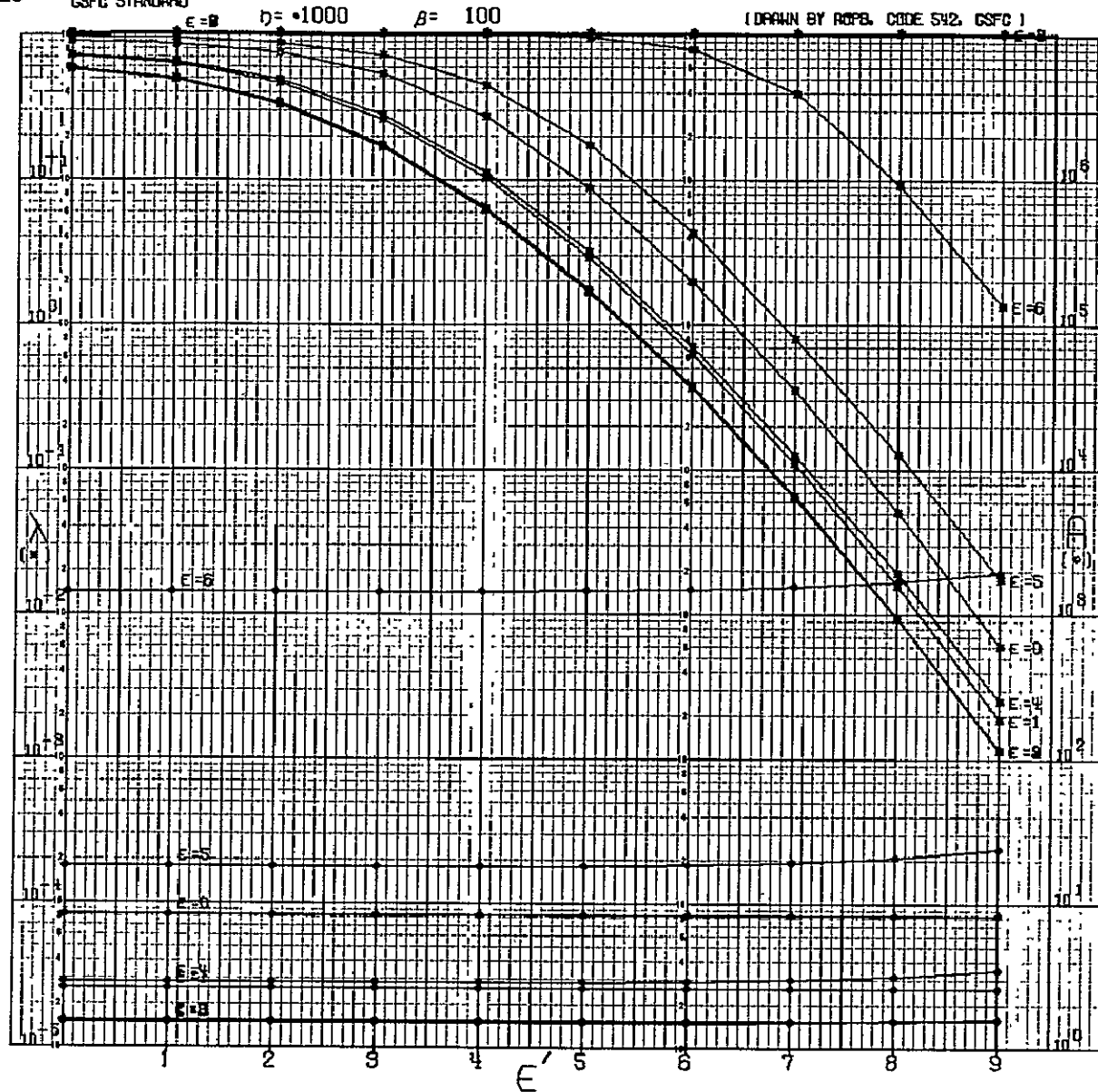
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



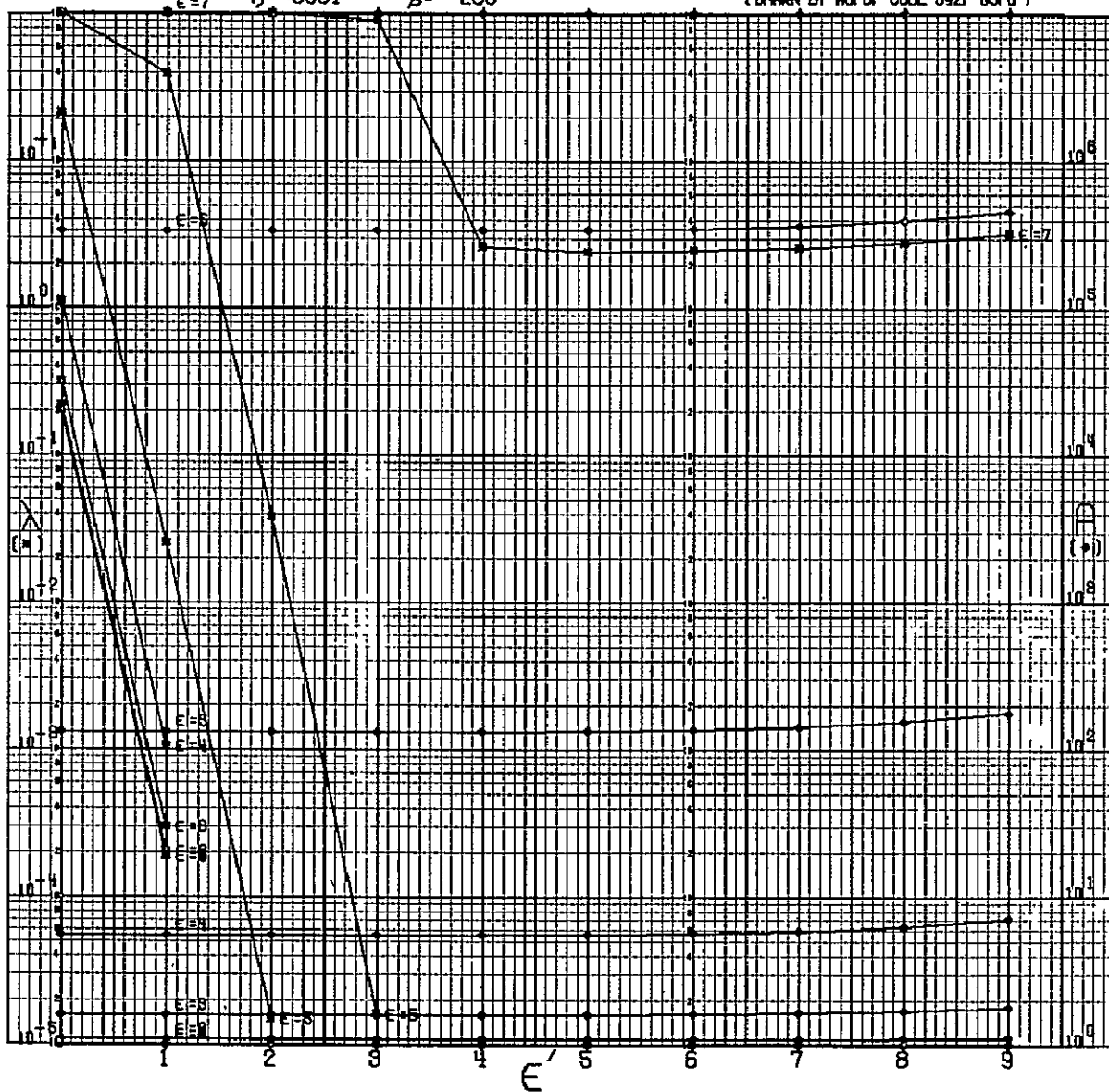
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 200$

(DRAWN BY ADP6, CODE 542, GSFC)



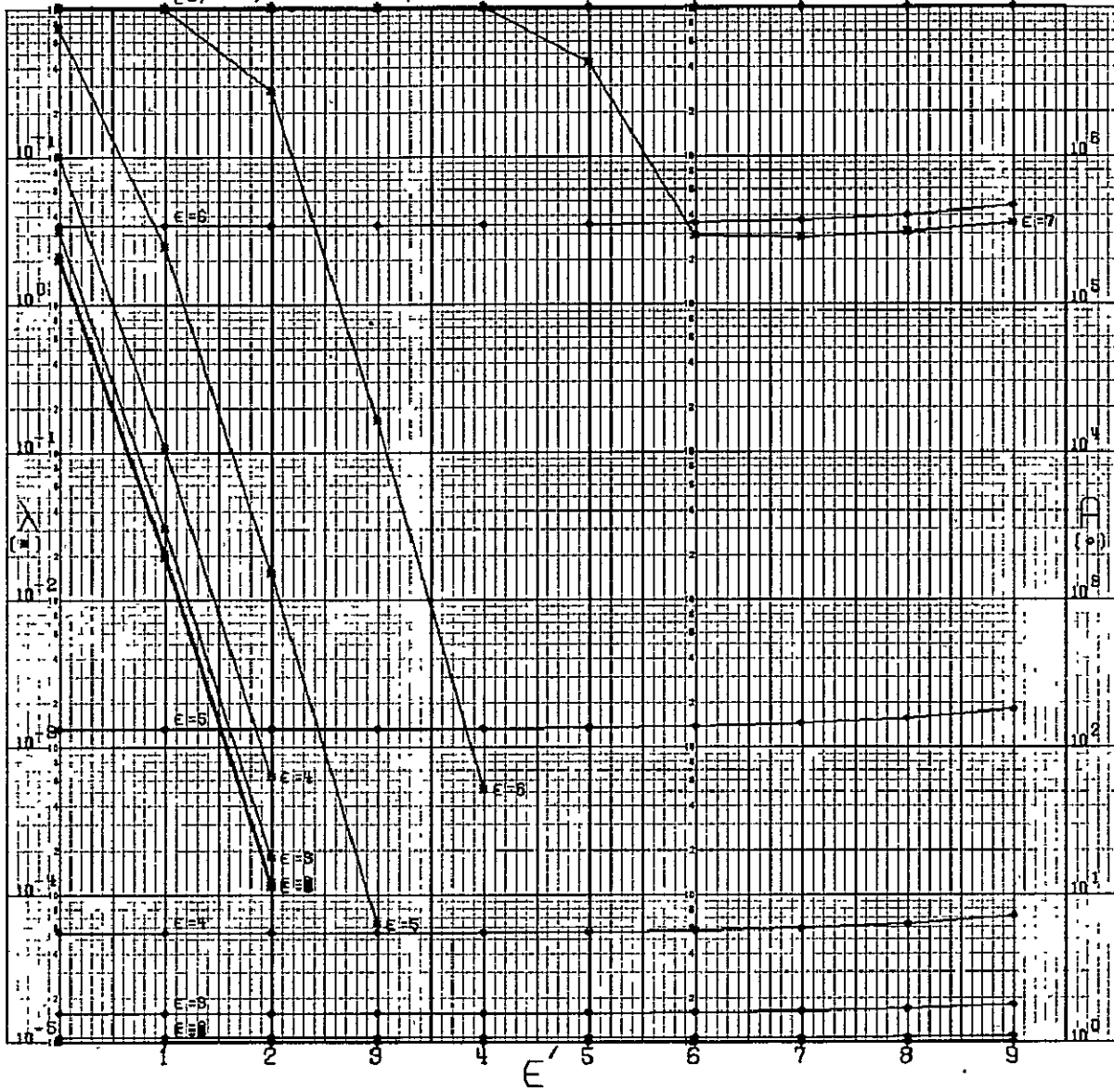
N=20

CODE 11101101111000100000
GSFC STANDARD

$\eta = .0010$

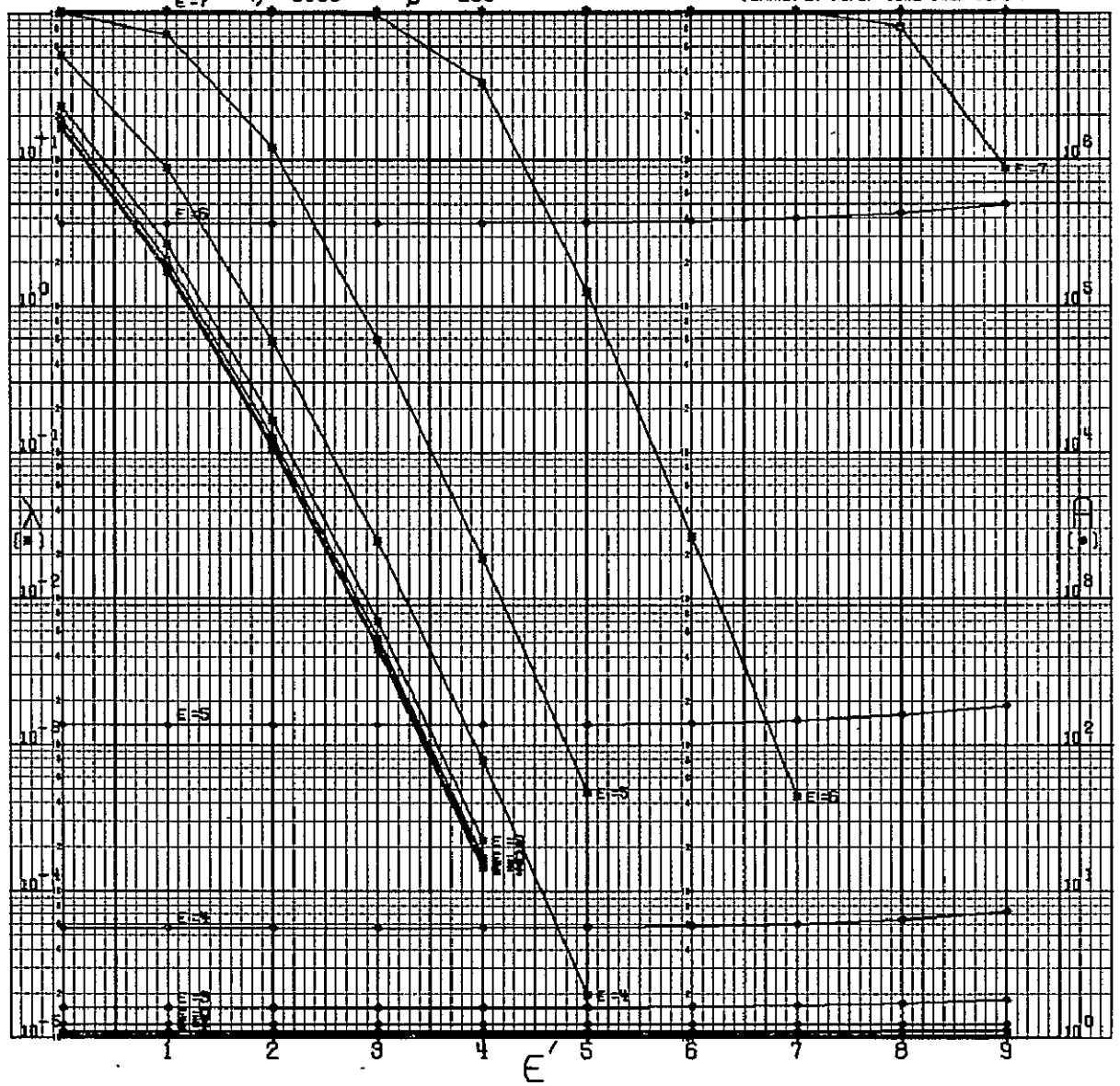
$\beta = 200$

(DRAWN BY RCPB, CODE 542, GSFC)



A-408

$N = 20$
 CODE 11101101111000100000
 GSFC STANDARD $\eta = 0.0100$ $\beta = 200$ (DRAWN BY ROPB, CODE 542, GSFC)



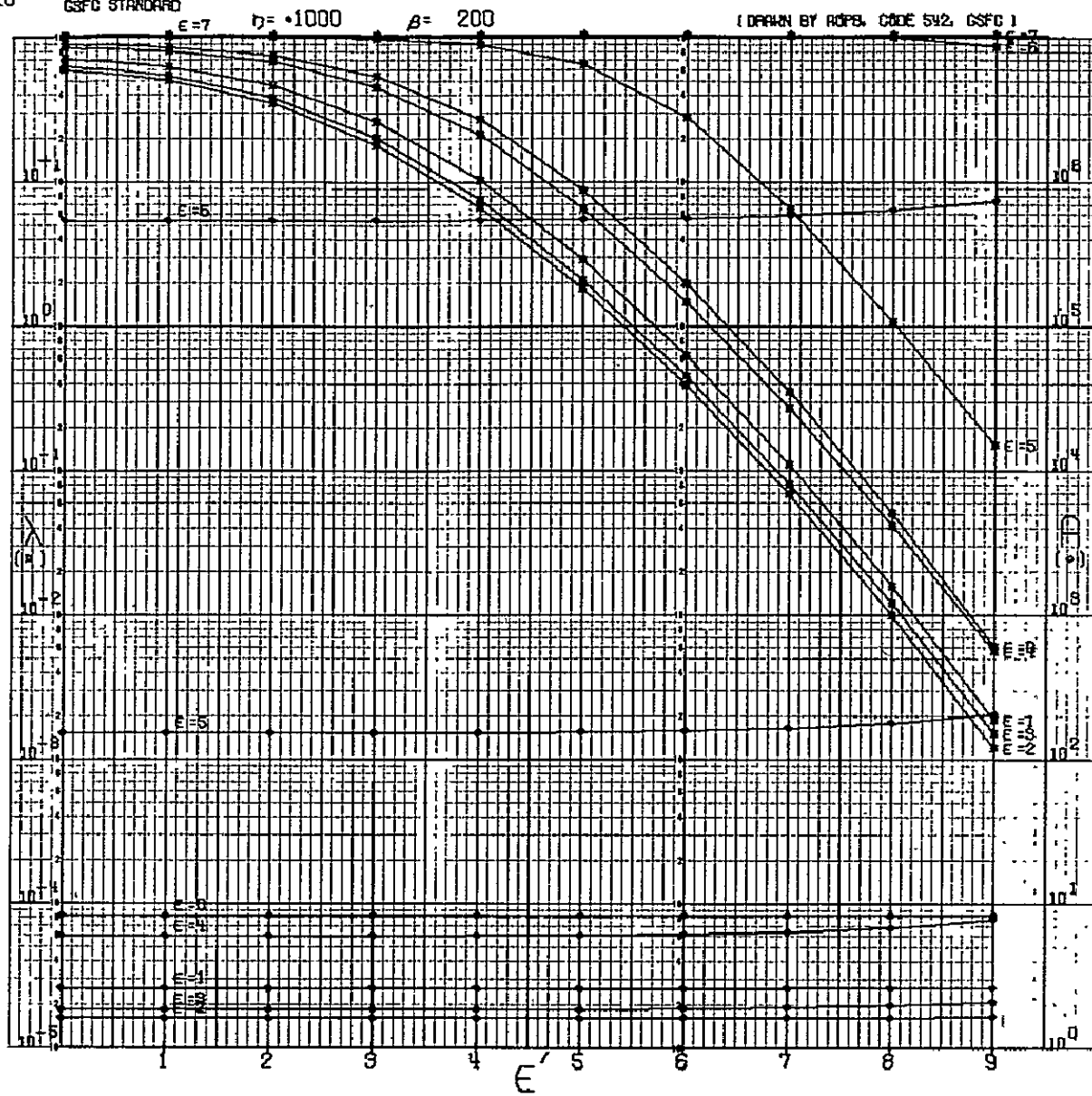
N=20

CODE 11181101111000100000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



N=20

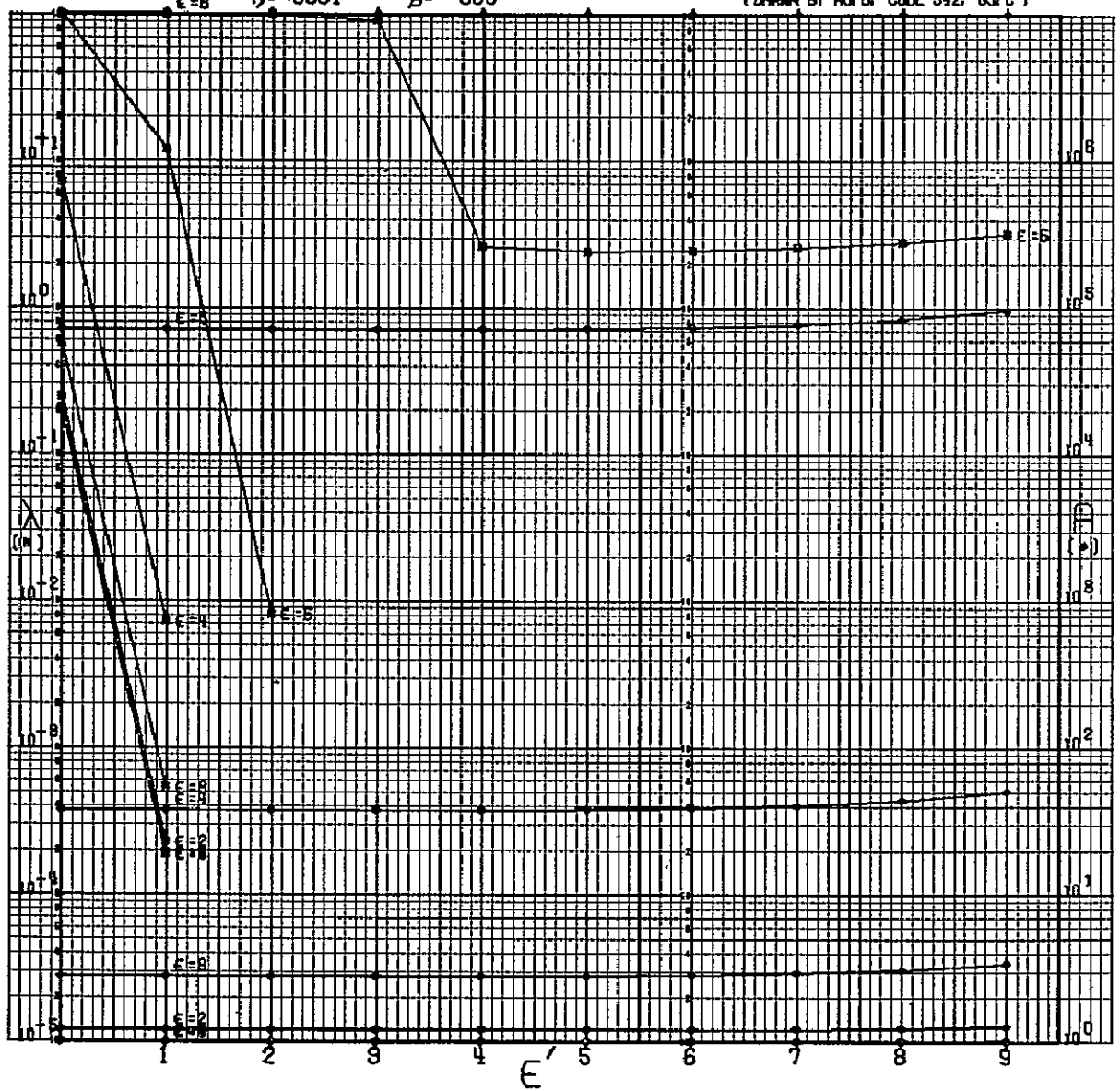
CODE 11101101111000100000

GSFC STANDARD

$\eta = -0.001$

$\beta = 500$

(DRAWN BY ADPB, CODE 542, GSFC)



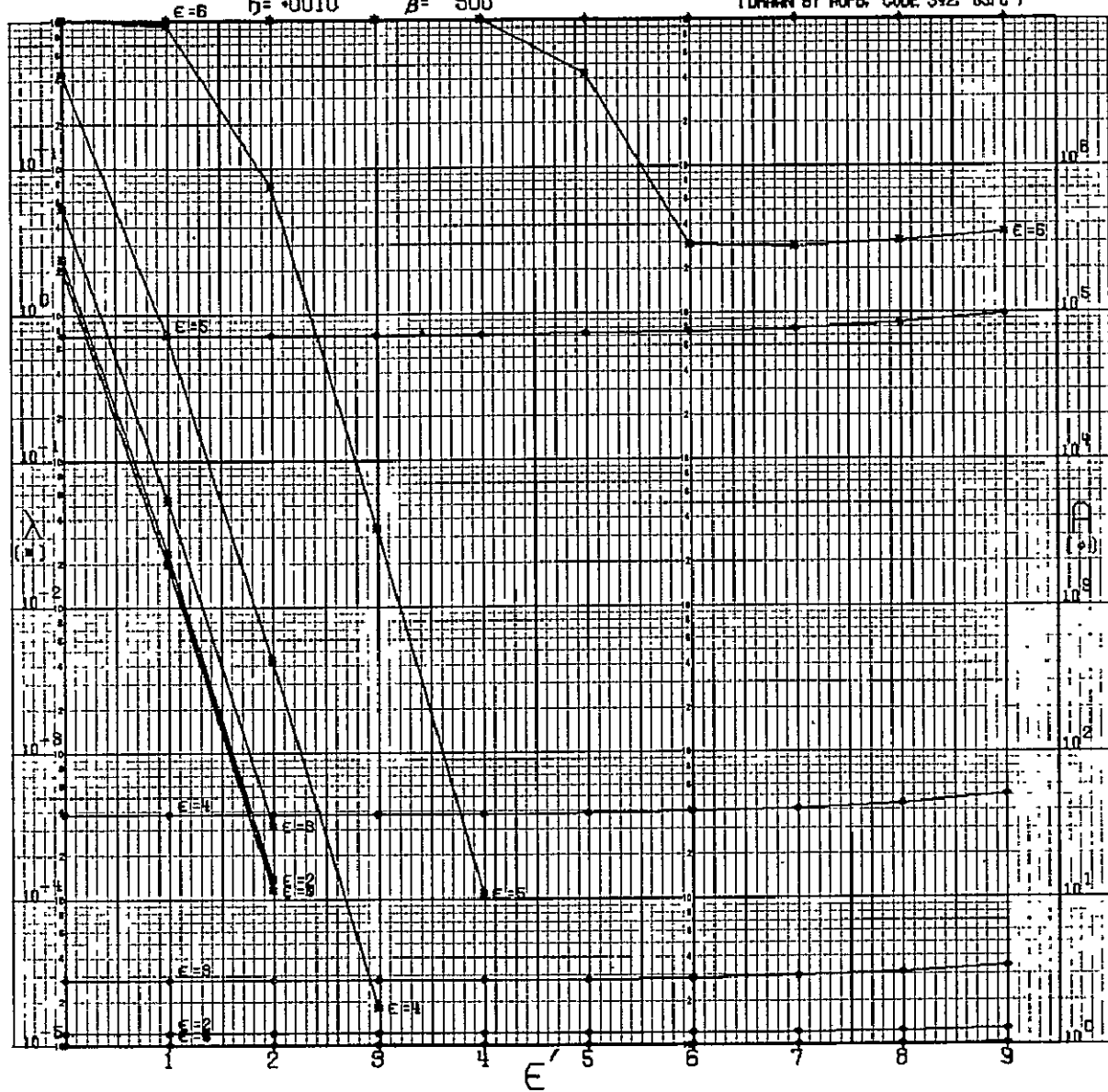
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = .0010$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



N=20

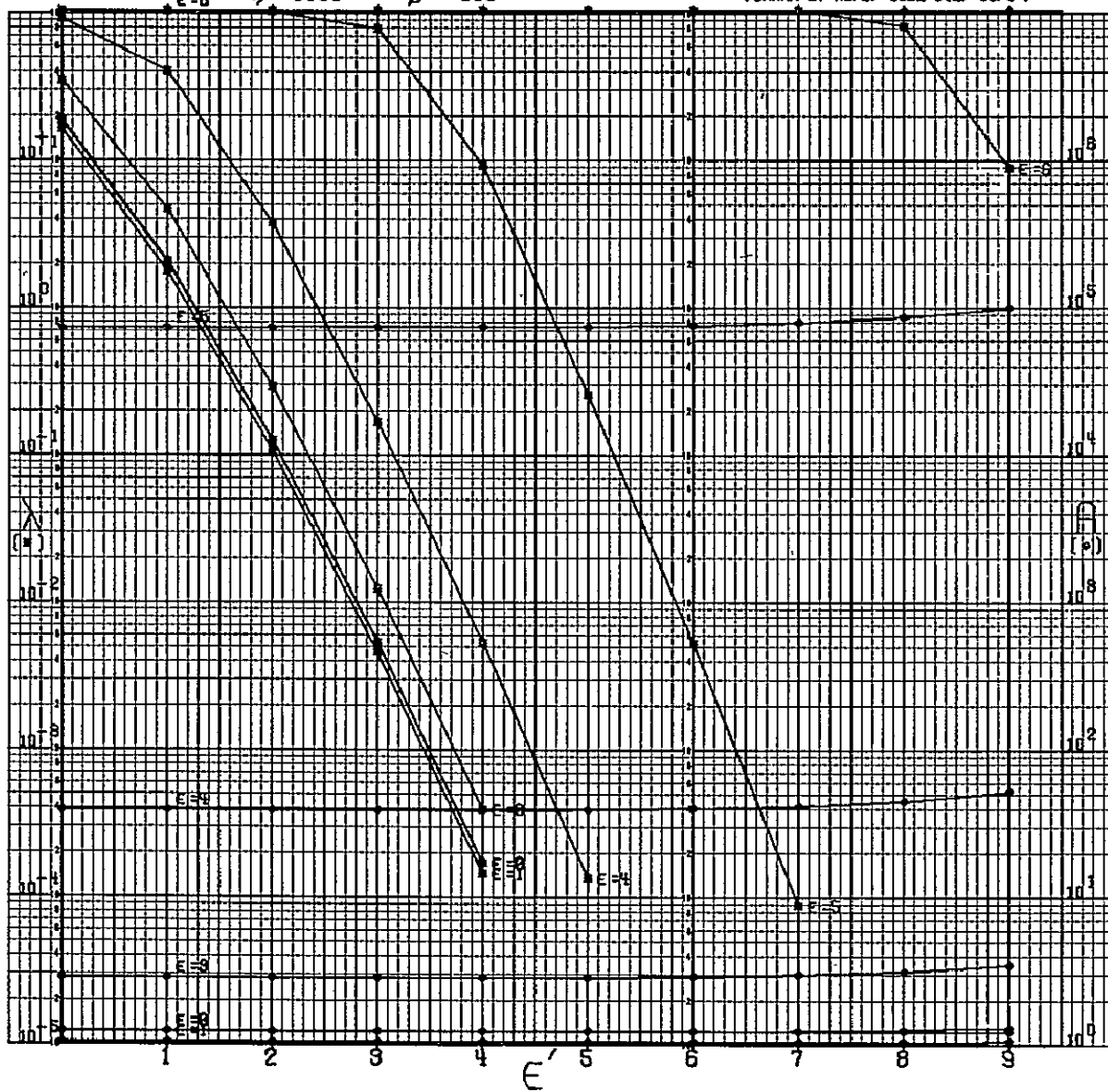
CODE 11101101111000100000

GSFC STANDARD

$\eta = +0100$

$\beta = 500$

(DRAWN BY AOPS. CODE 542, GSFC)



N=20

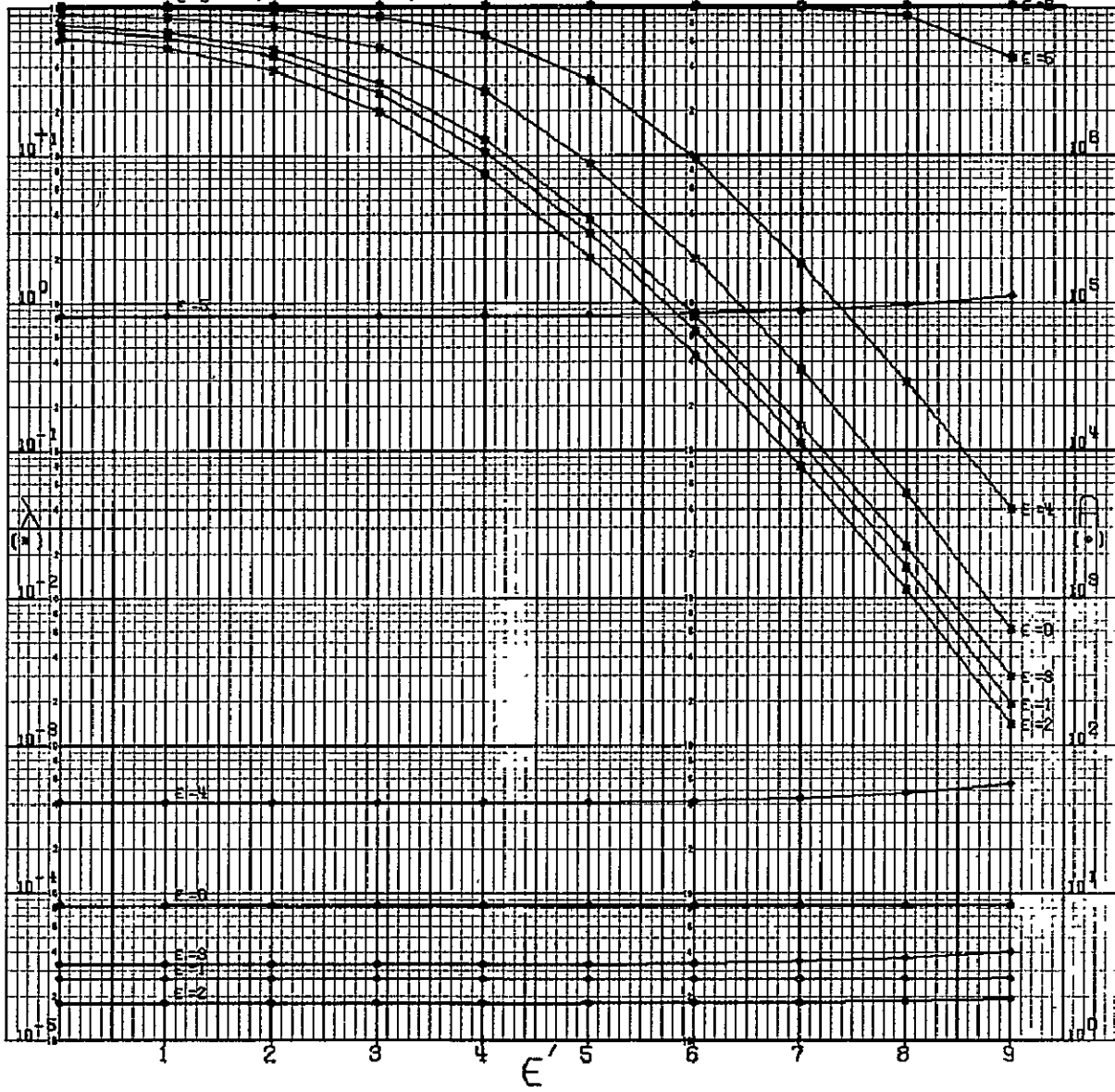
CODE 11101101111000100000

GSFC STANDARD

$\epsilon = 6$ $\eta = 1000$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



A-414

N=20

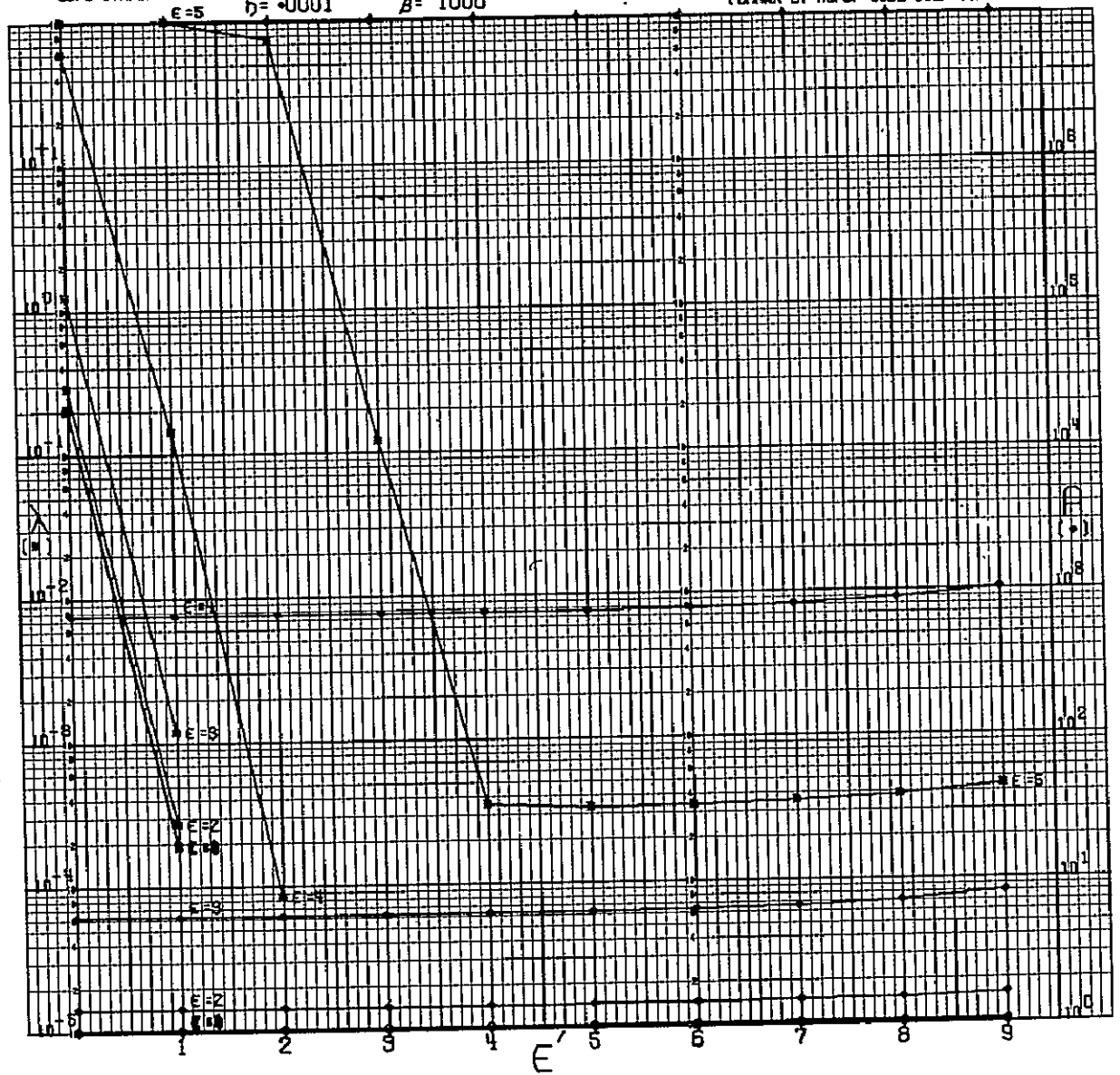
CODE 11101101111000100000

GSFC STANDARD

$h = 0.0001$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 20

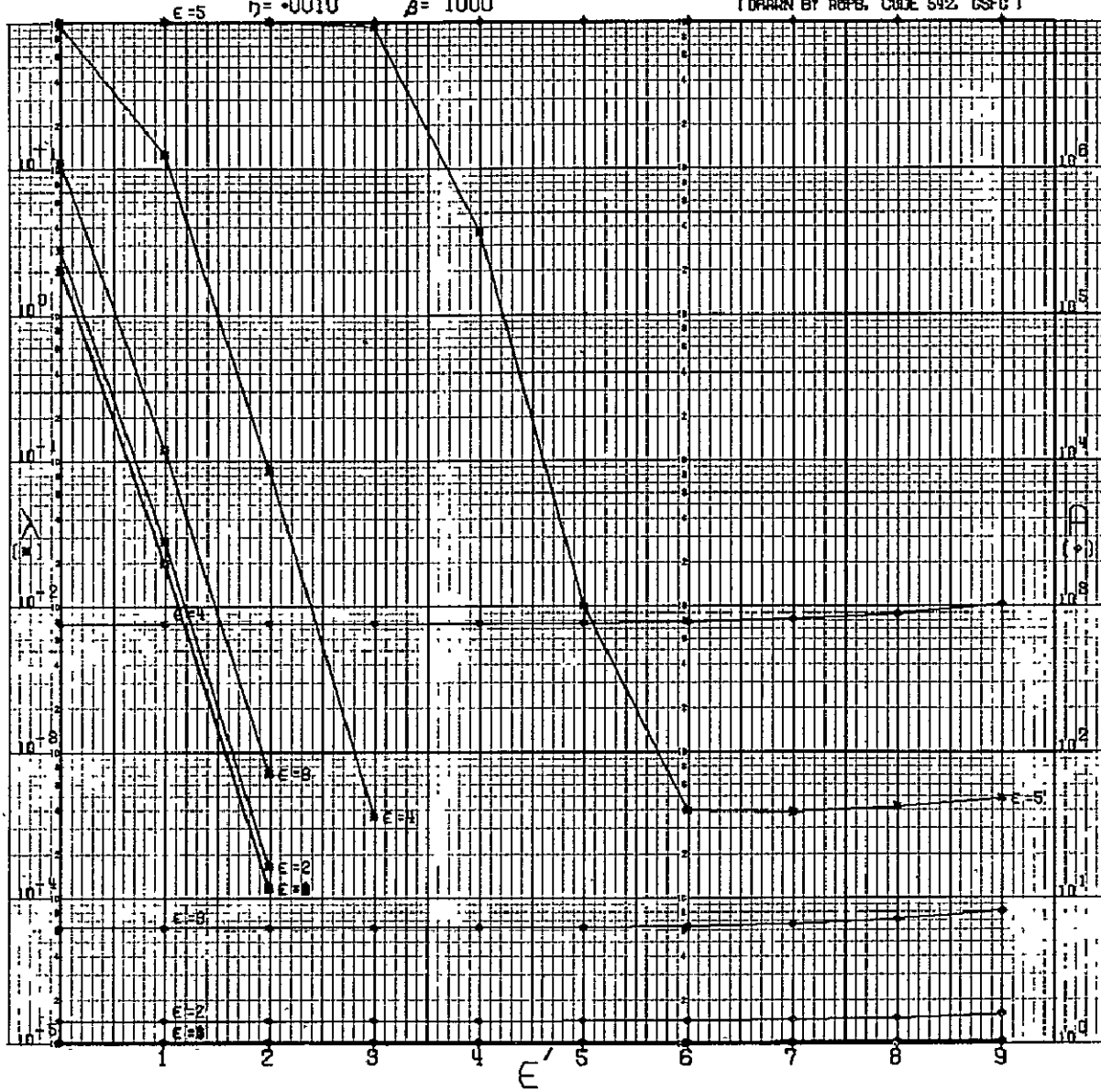
CODE 11101101111000100000

GSFC STANDARD

$\eta = +0010$

$\beta = 1000$

(DRAWN BY ROFS, CODE 542, GSFC)



N = 20

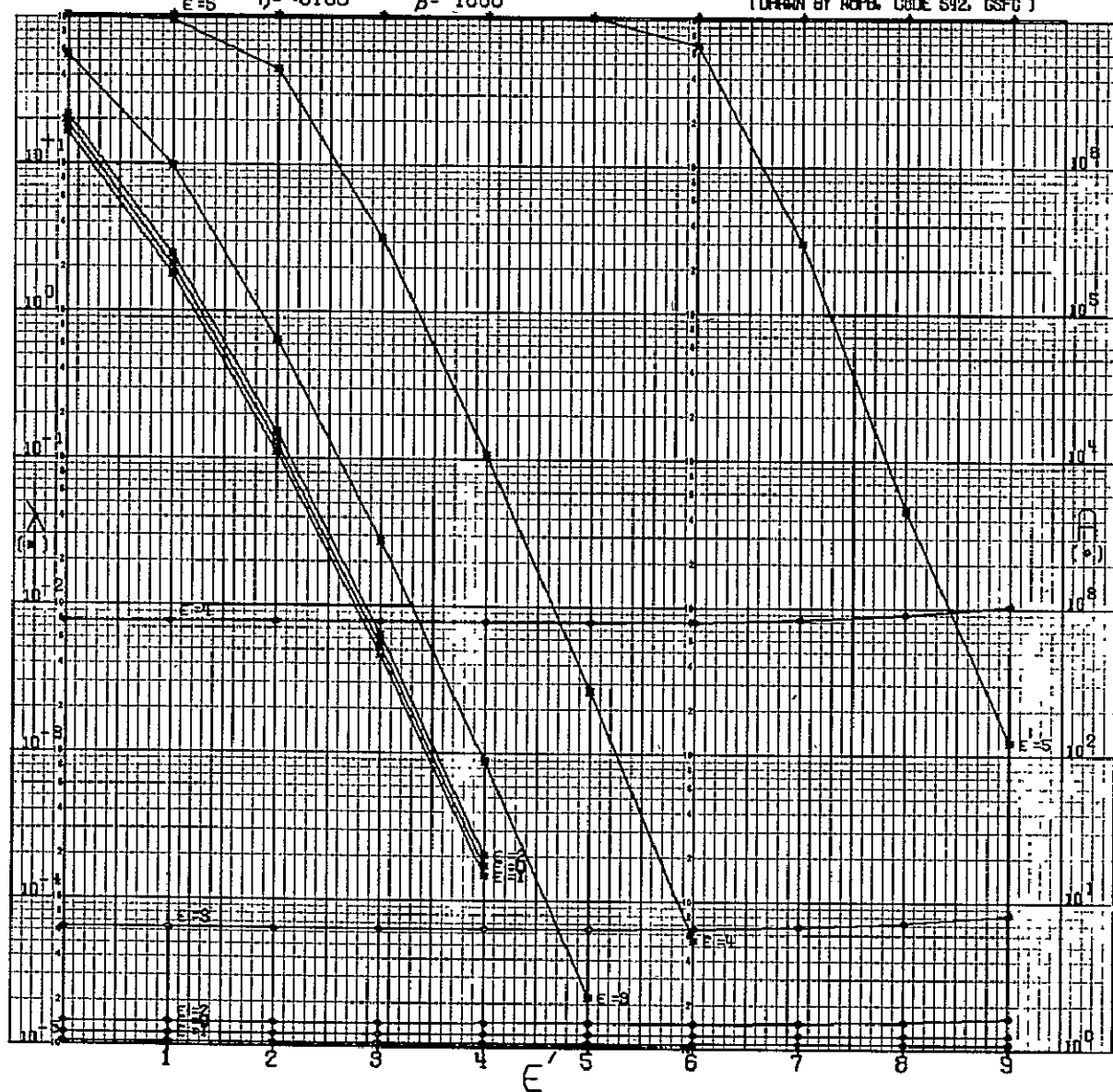
CODE 1110110111000100000

GSFC STANDARD

$\epsilon = 5$ $\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 592, GSFC)



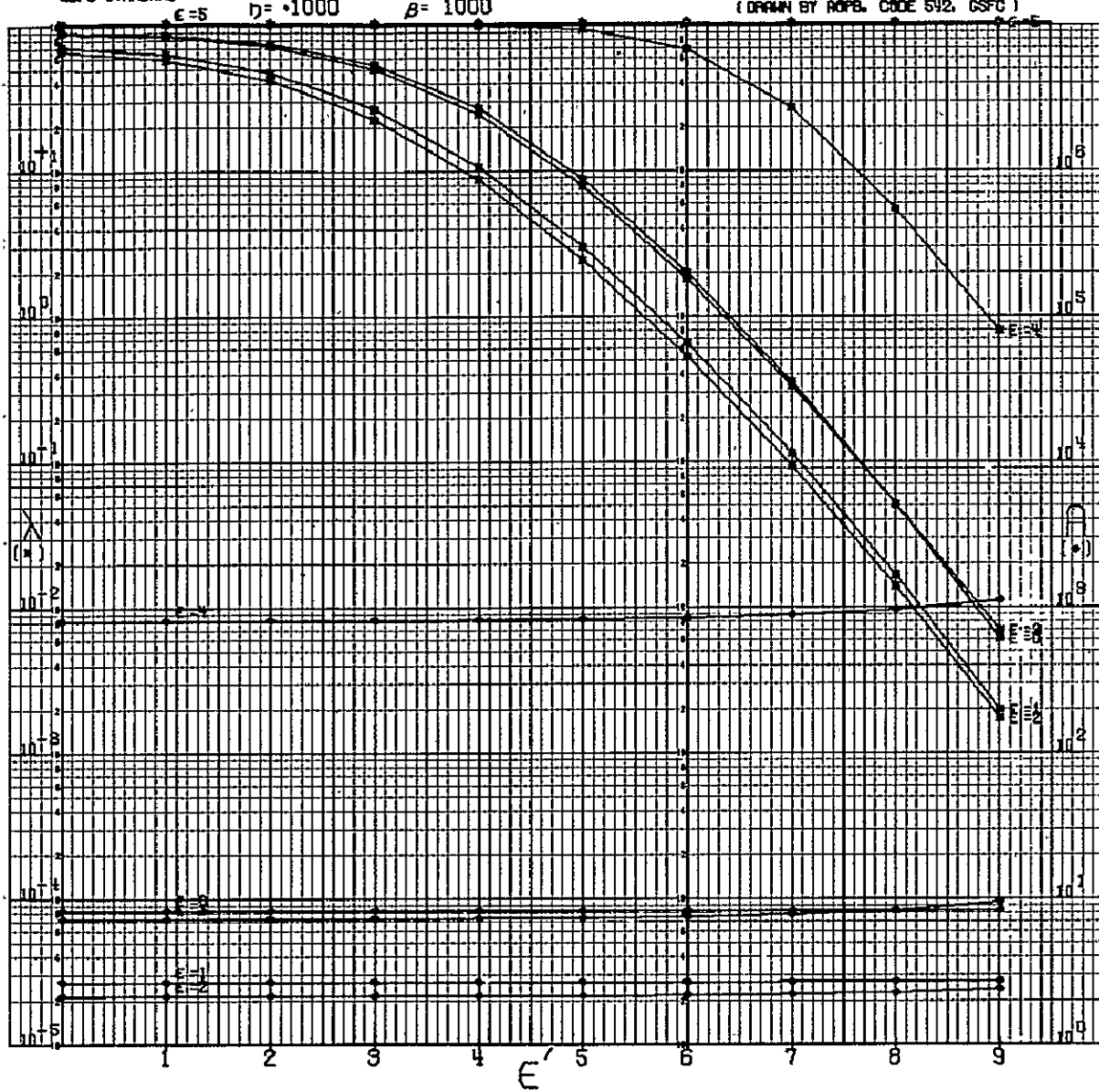
N=20

CODE 11101101111000100000
GSFC STANDARD

$D = 1000$

$\beta = 1000$

(DRAWN BY ROPL CODE 592 GSFC)



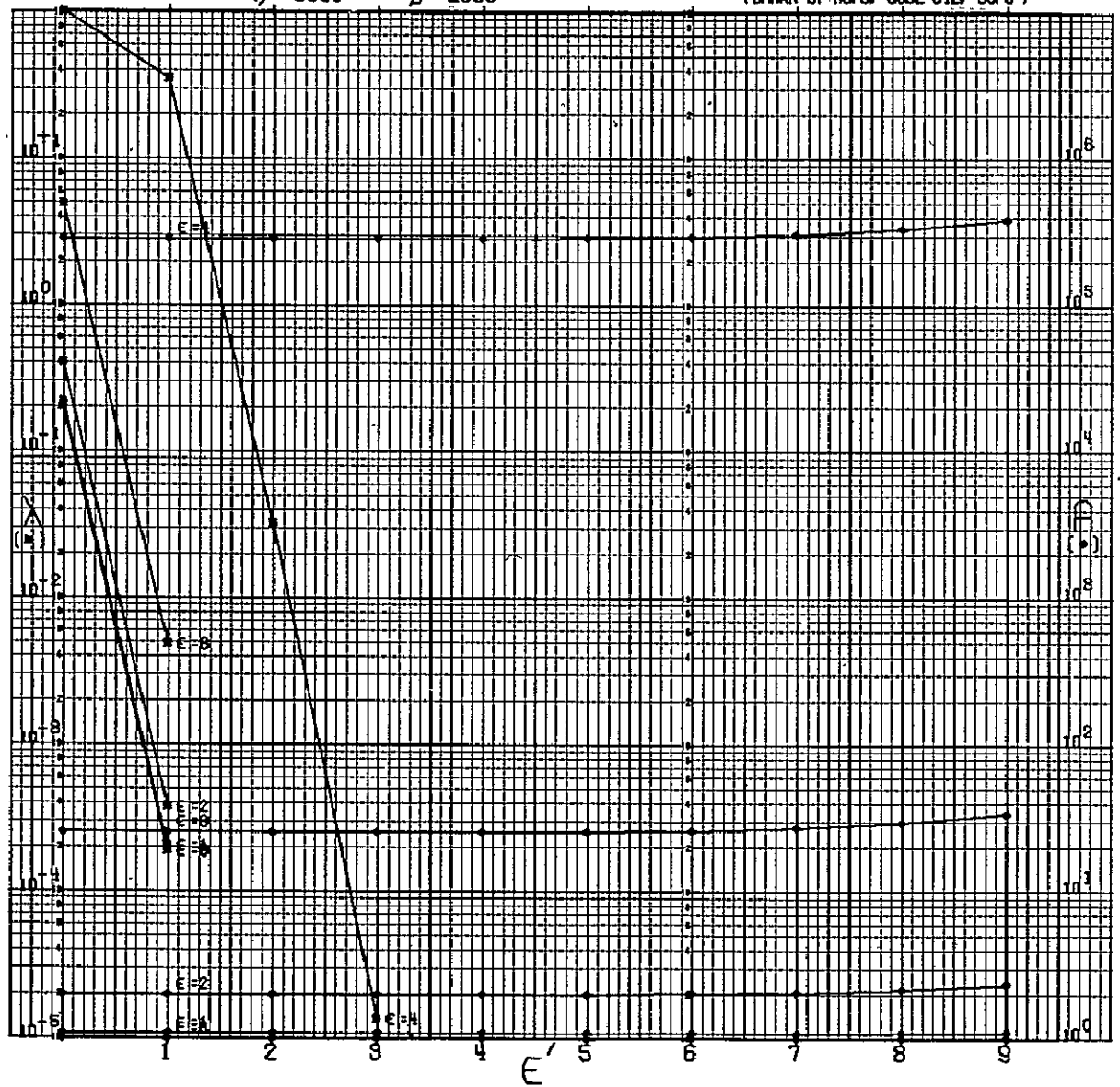
N=20

CODE 11101101111000100000
CSFC STANDARD

$\eta = 0.0001$

$\beta = 2000$

(DRAWN BY AOPB, CODE 512, CSFC)



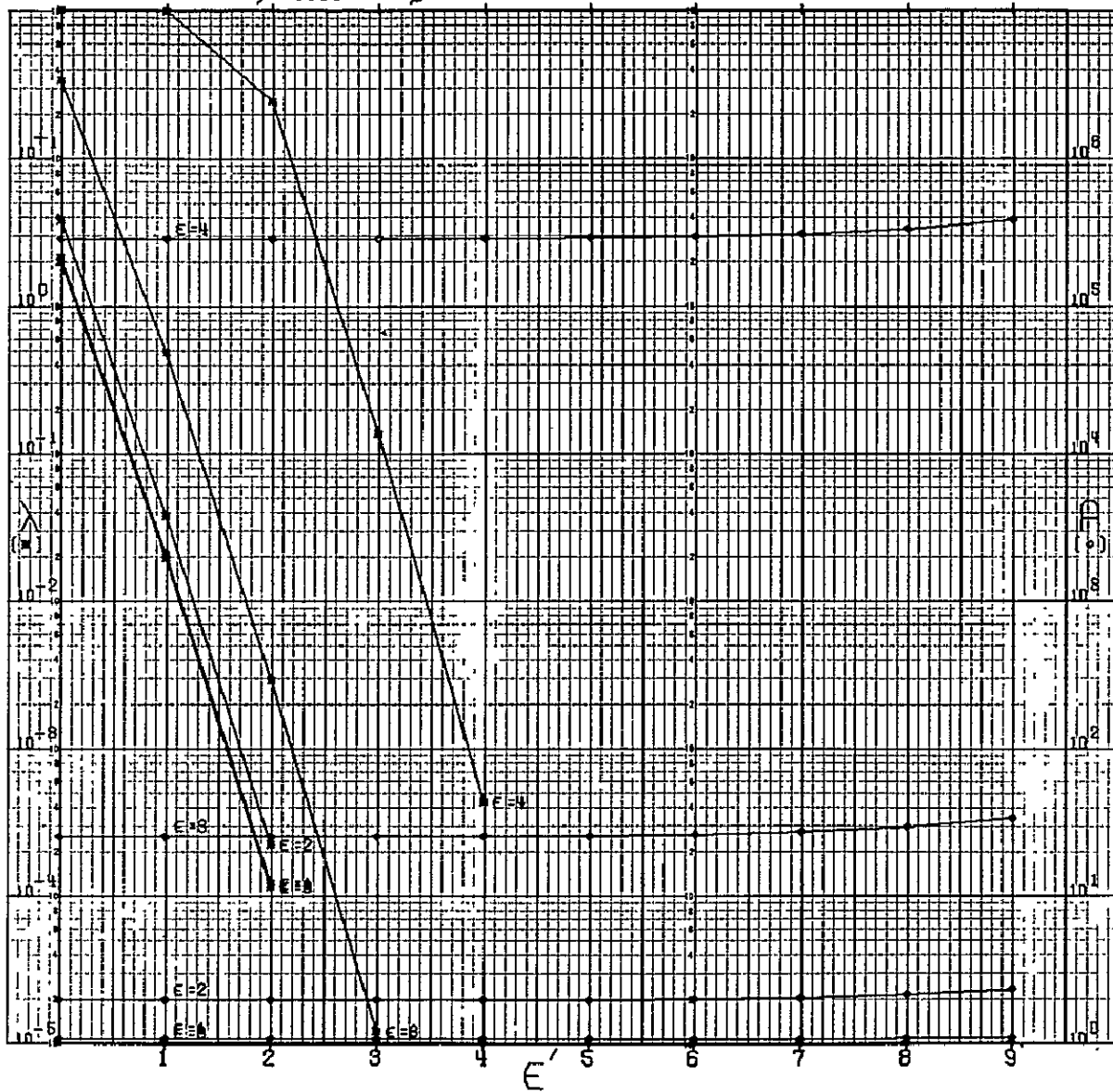
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = +0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



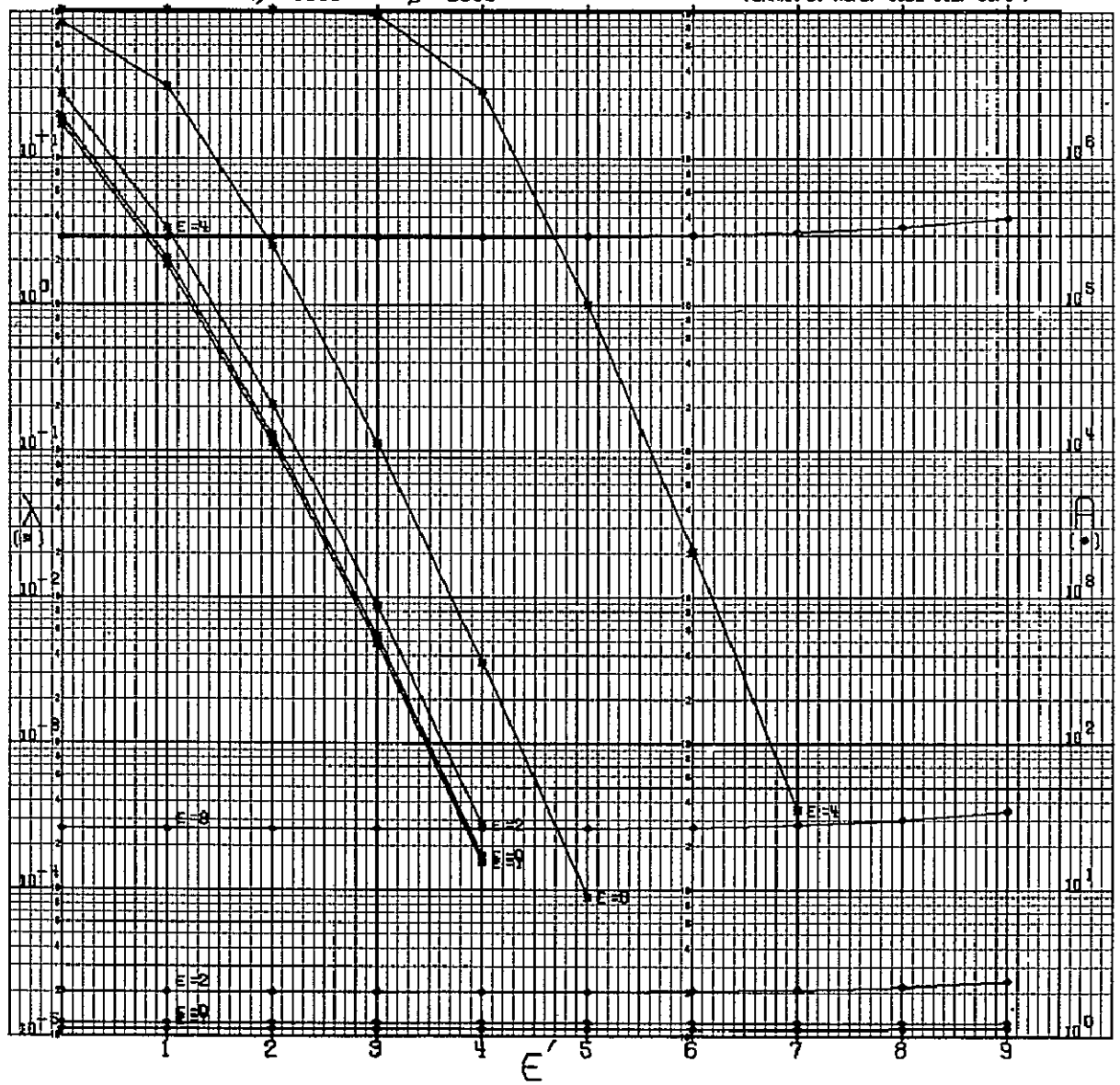
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



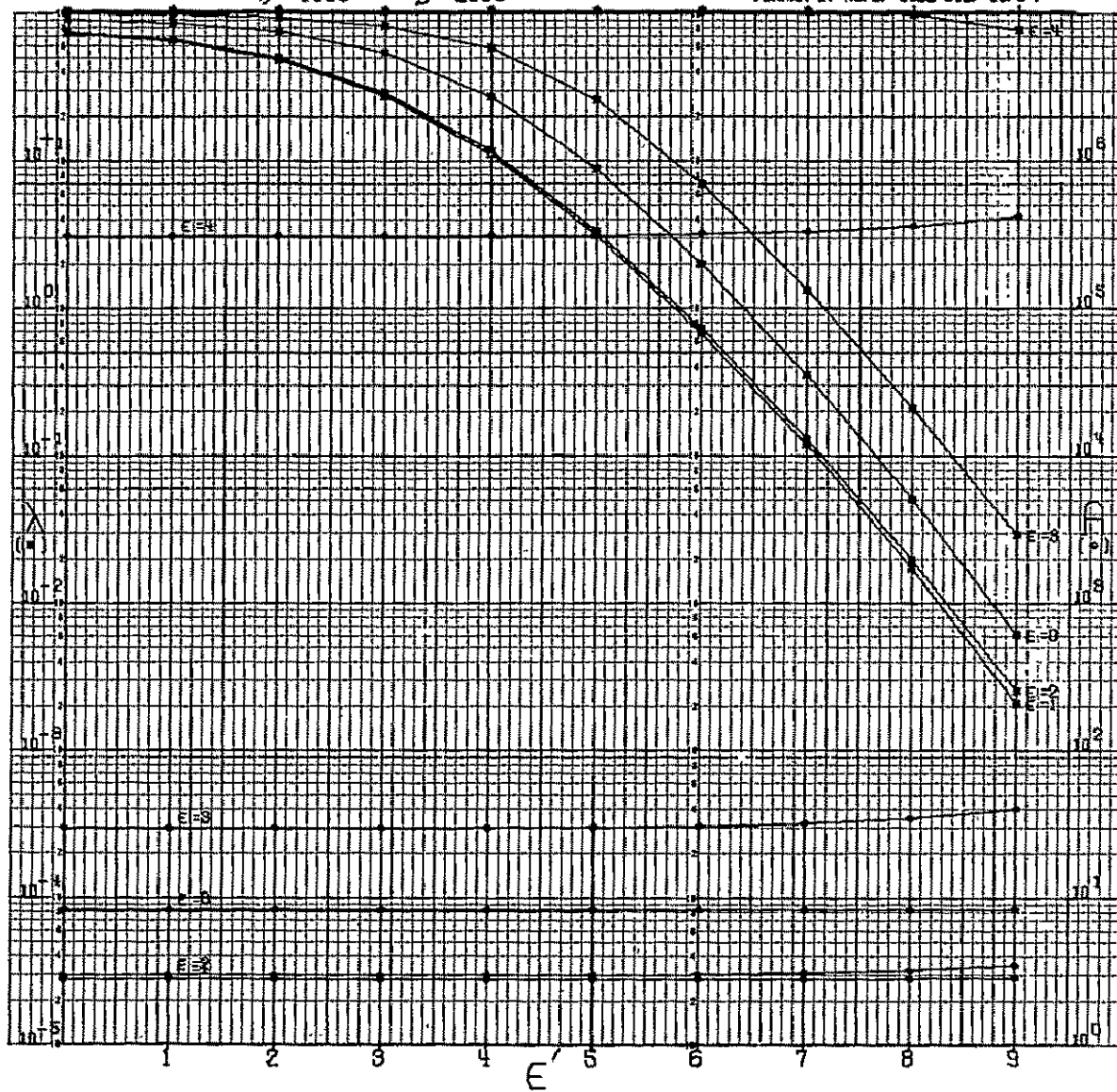
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPB, CODE 512, GSFC)



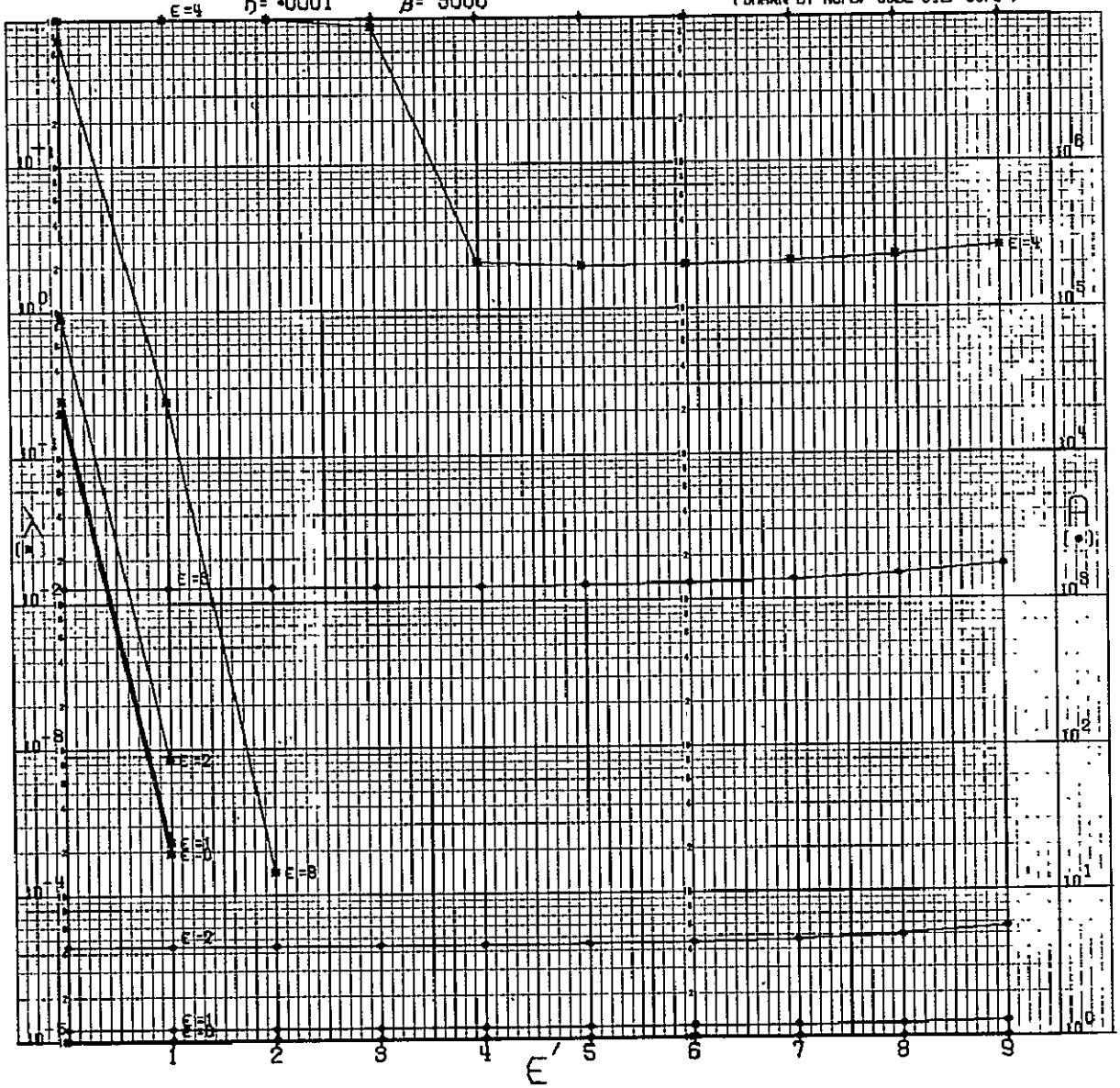
N=20

CODE 1110110111000100000
GSFC STANDARD

$\eta = .0001$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 20

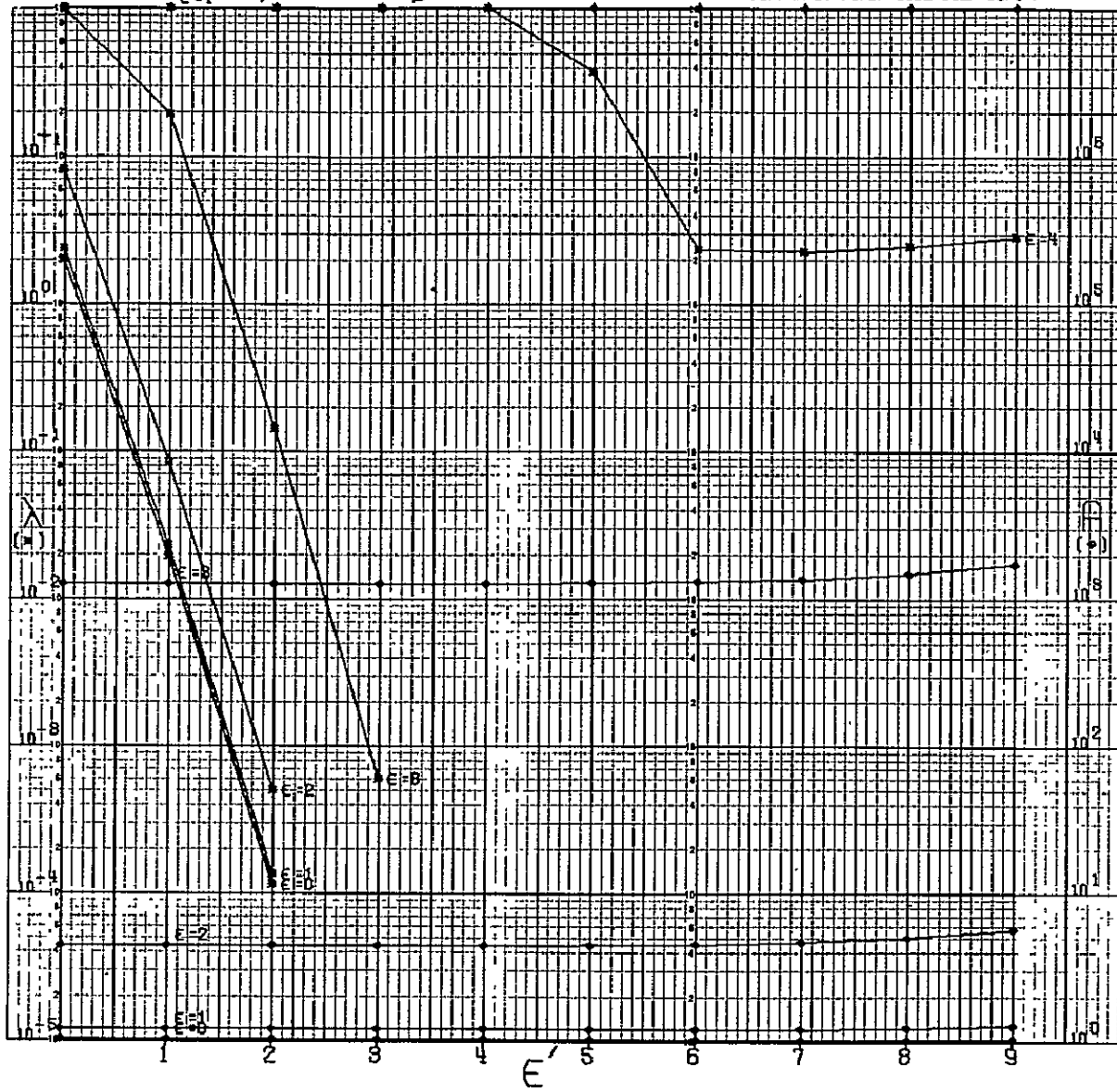
CODE 11101101111000100000

GSFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 20

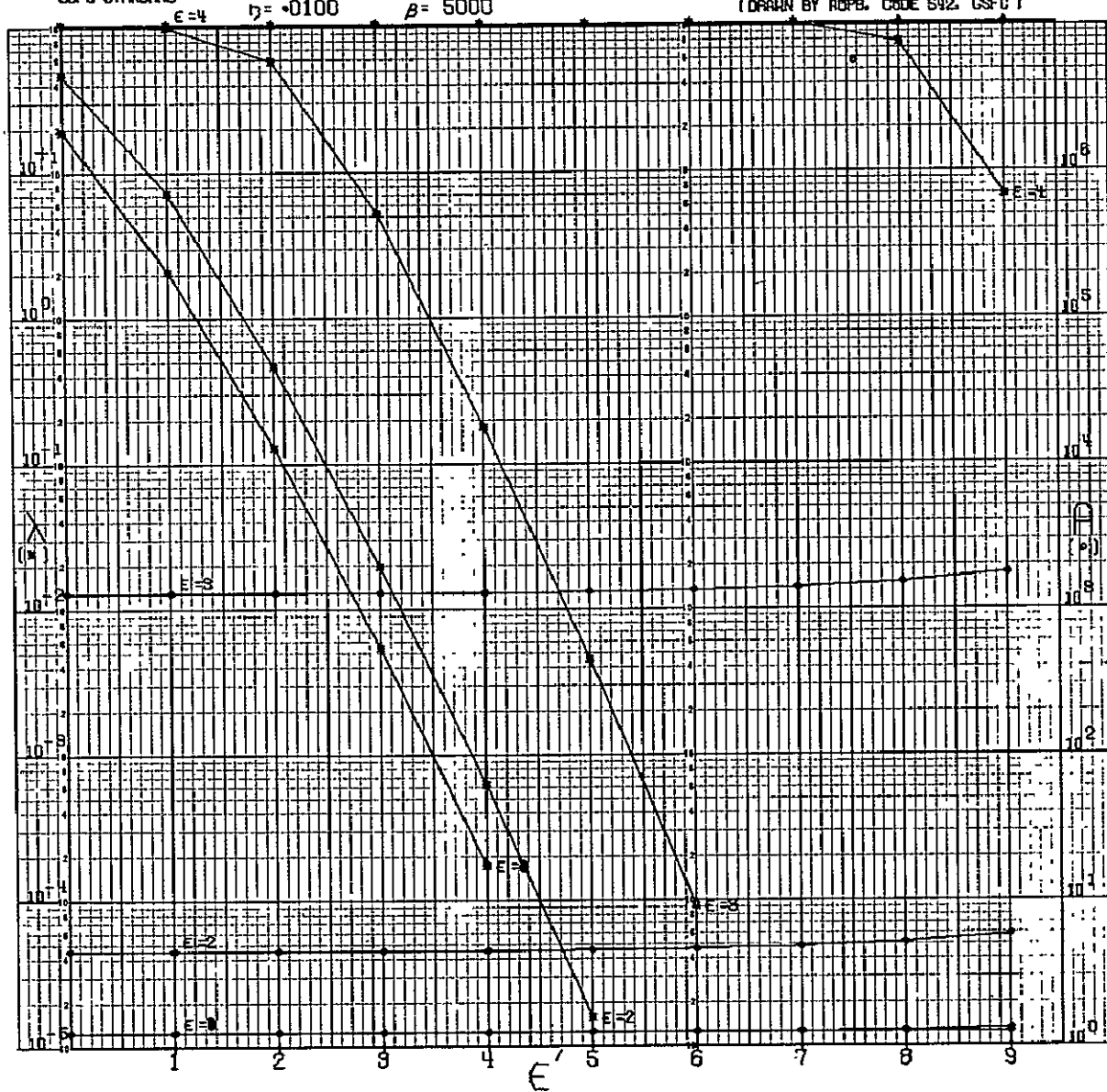
CODE 11101101111000100000

GSFC STANDARD

$\eta = +0100$

$\beta = 5000$

(DRAWN BY ACPB. CODE 542. GSFC)



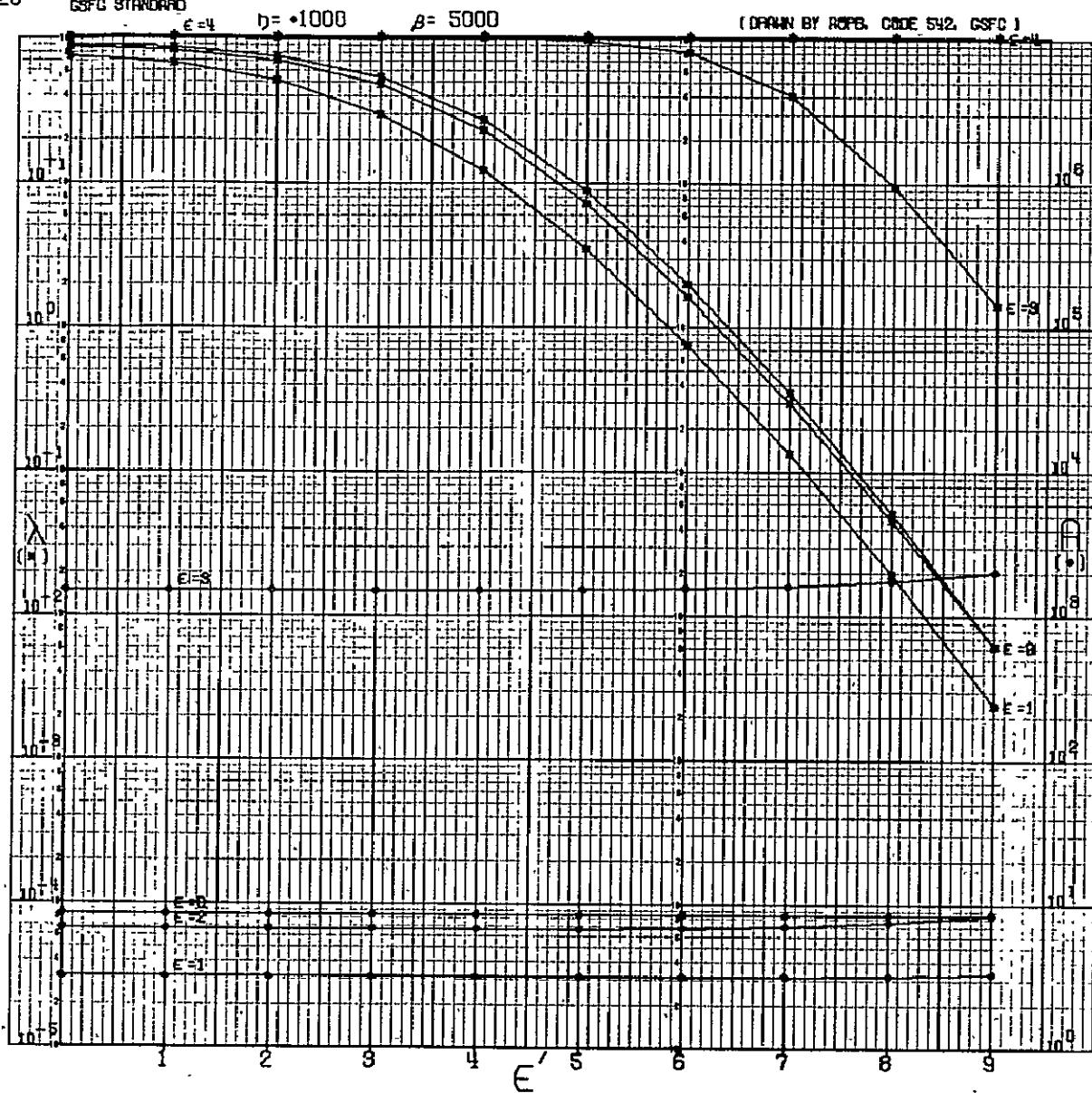
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



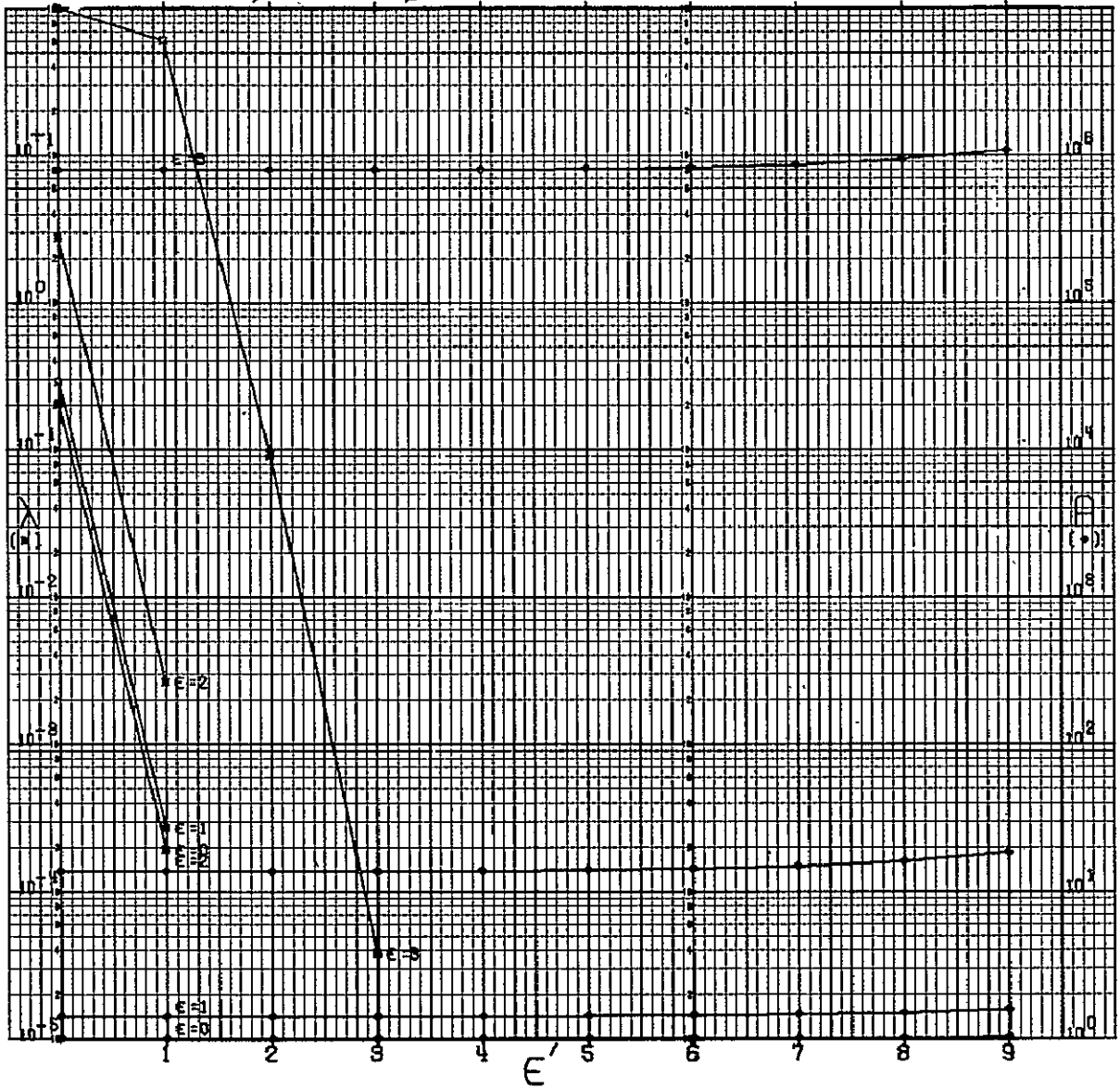
N=20

CODE 11101103111000100000
GSFC STANDARD

$\eta = .0001$

$\beta = 10000$

(DRAWN BY AOPS, CODE 542, GSFC)



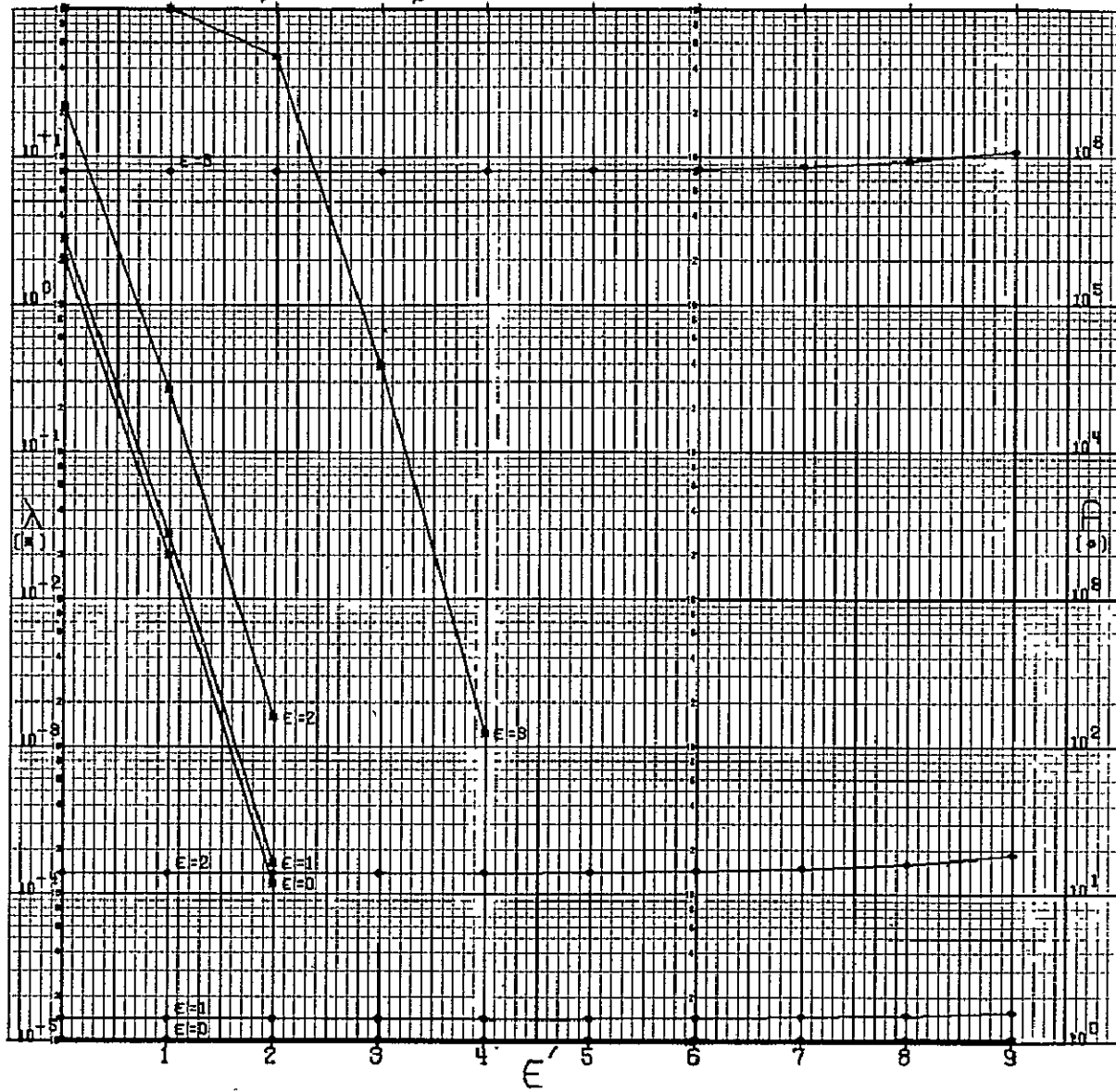
N=20

CODE 11101101111000100000
GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY RCPB, CODE 542, GSFC)



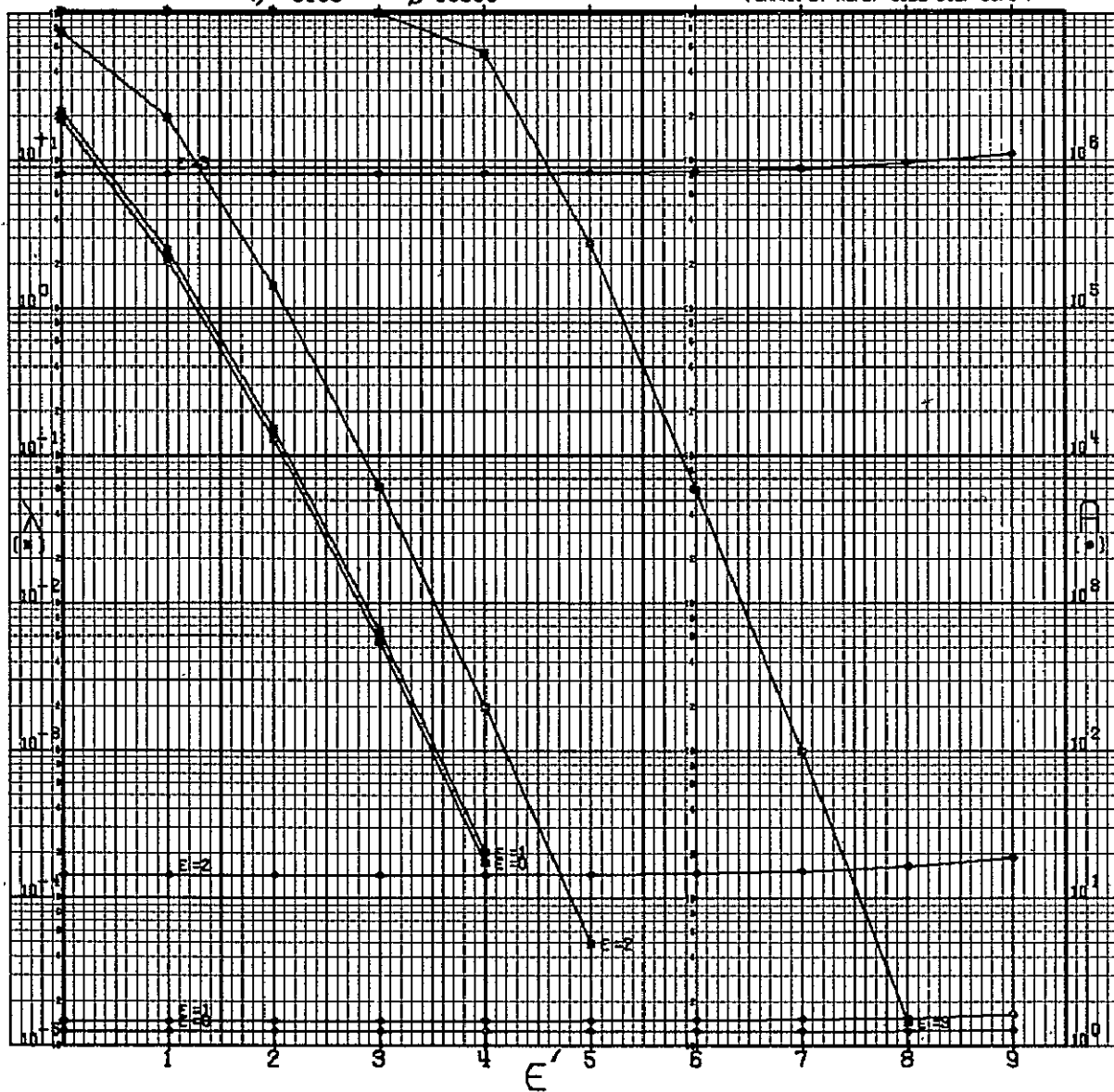
N=20

CODE 11101101111000100000
GSFC STANDARD

$\eta = -0.100$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



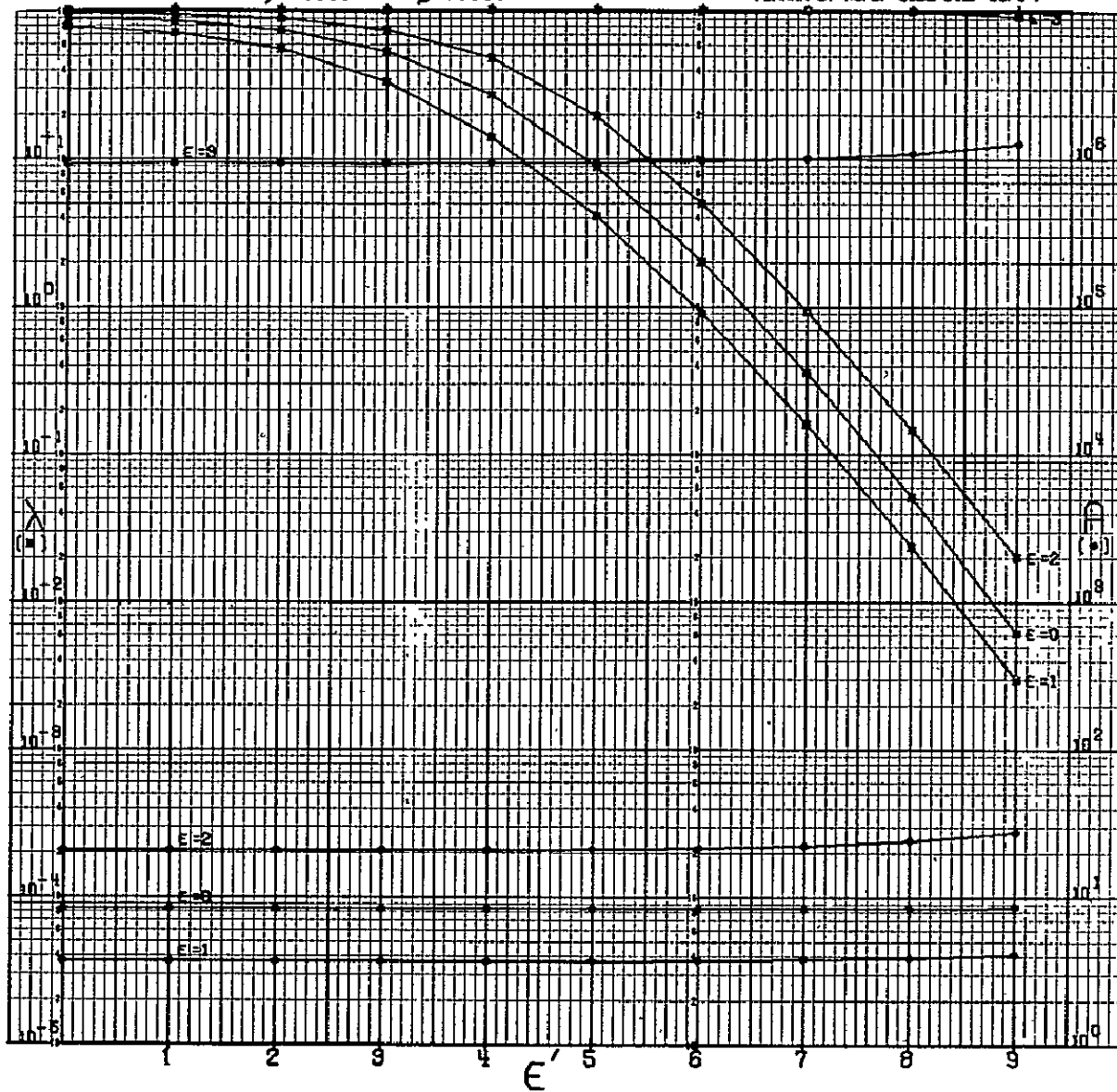
N=20

CODE 11101101111000100000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPG, CODE 512, GSFC)



N=20

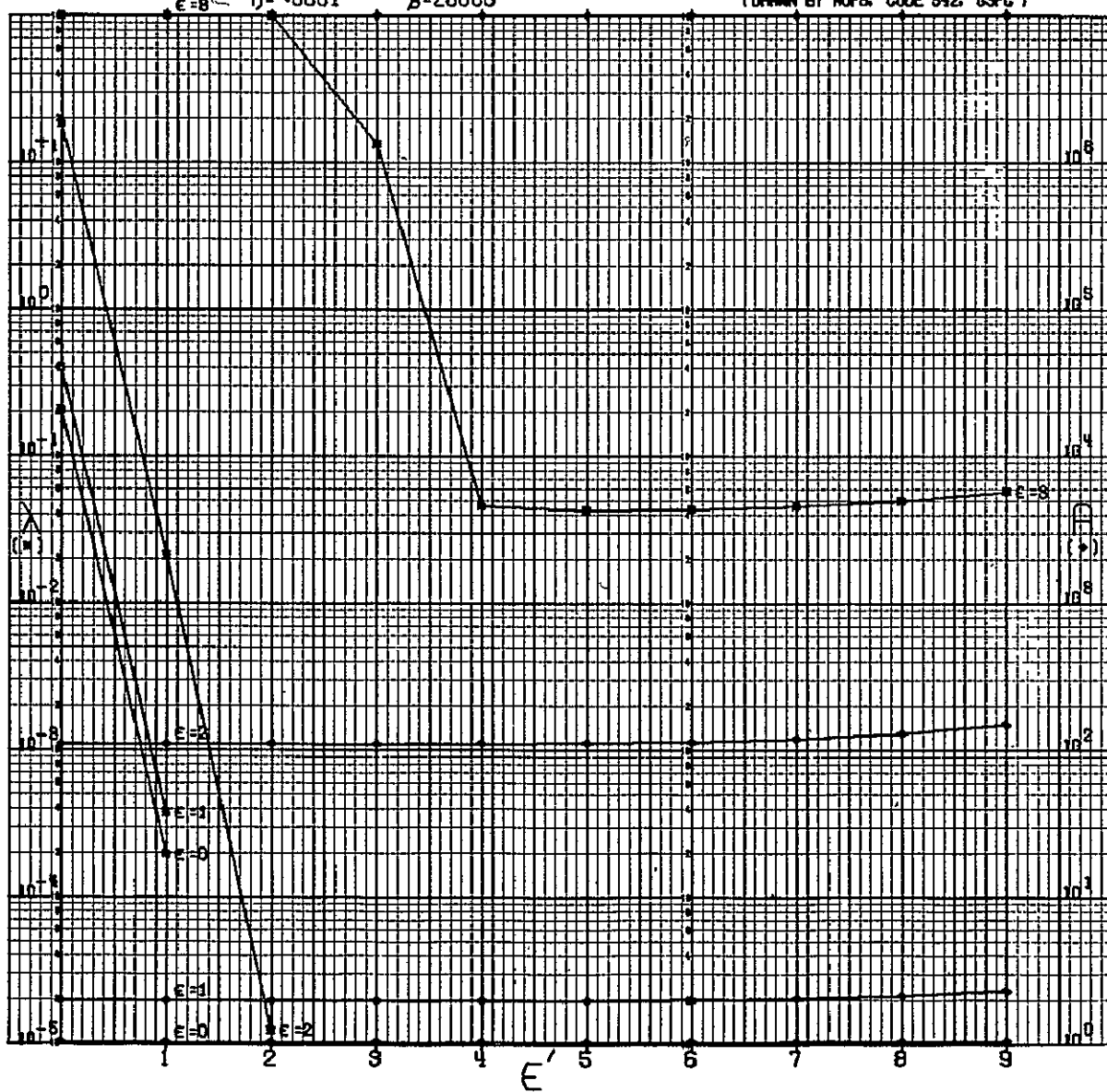
CODE 11101101111000100000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 20

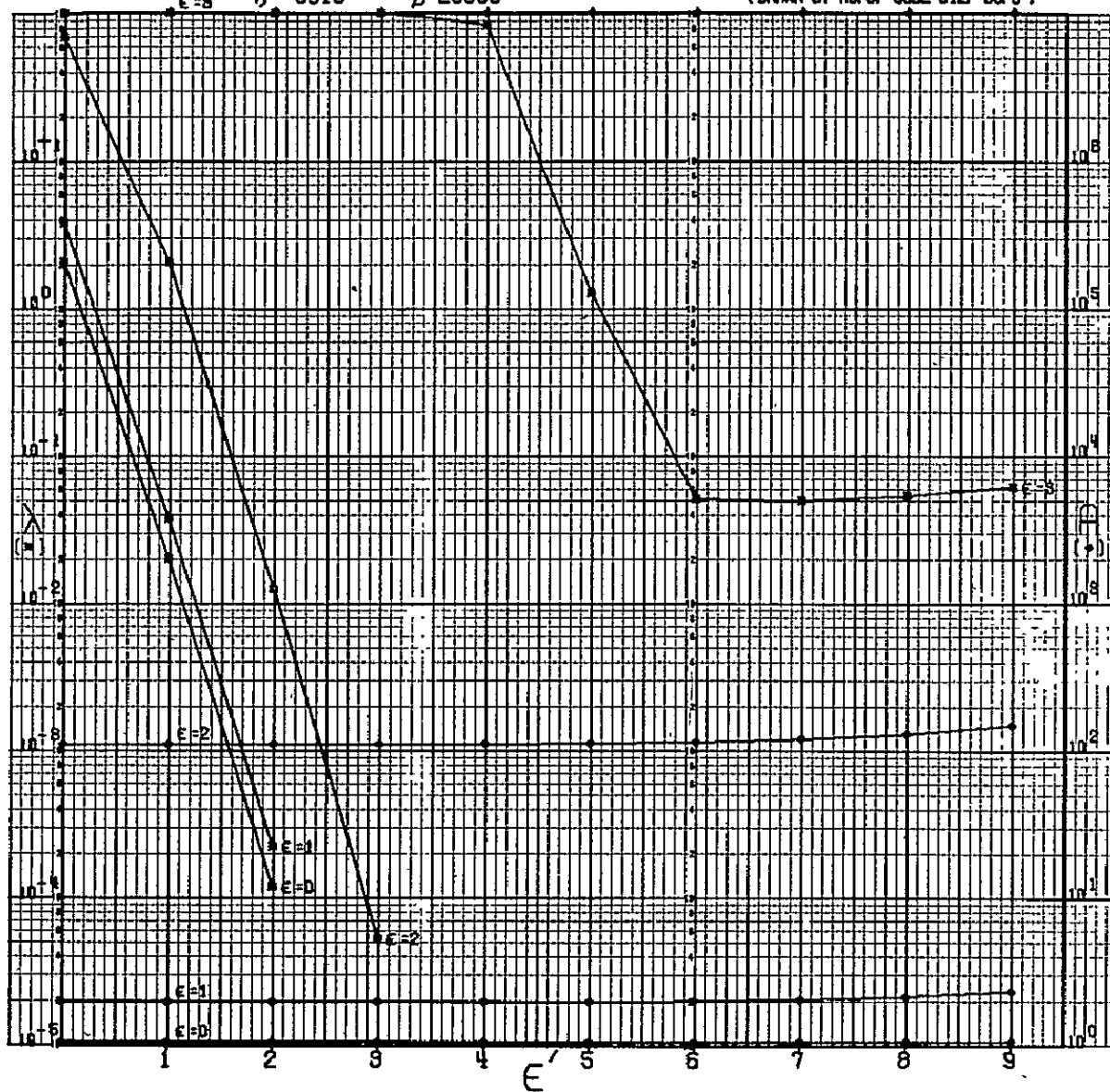
CODE 11101101111000100000

GSFC STANDARD

$\epsilon = 8$ $\eta = +0010$

$\beta = 20000$

(DRAWN BY ROPS, CODE 5V2, GSFC)



N=20

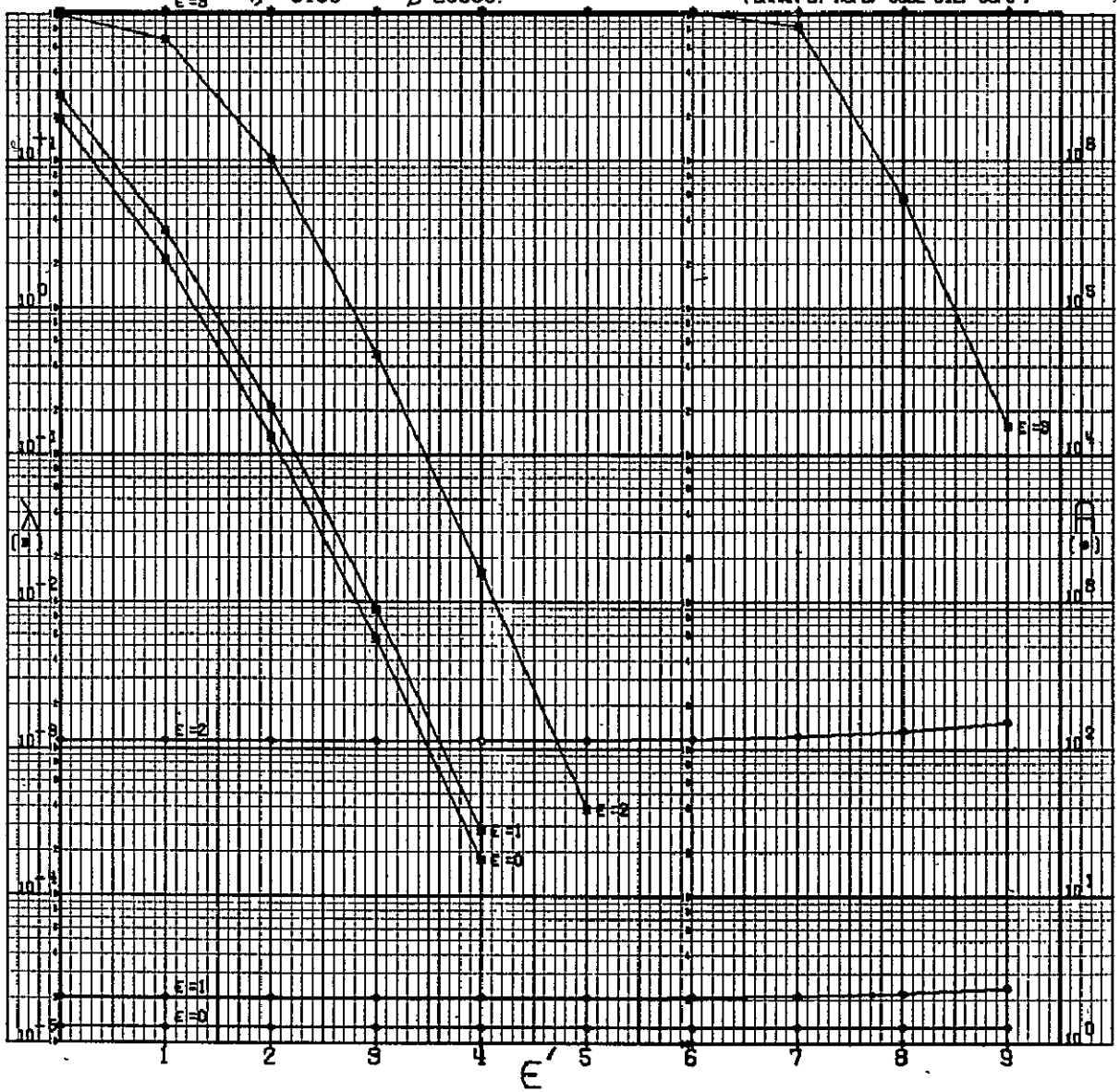
CODE 11101101111000100000

GSFC STANDARD

$\eta = +0100$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



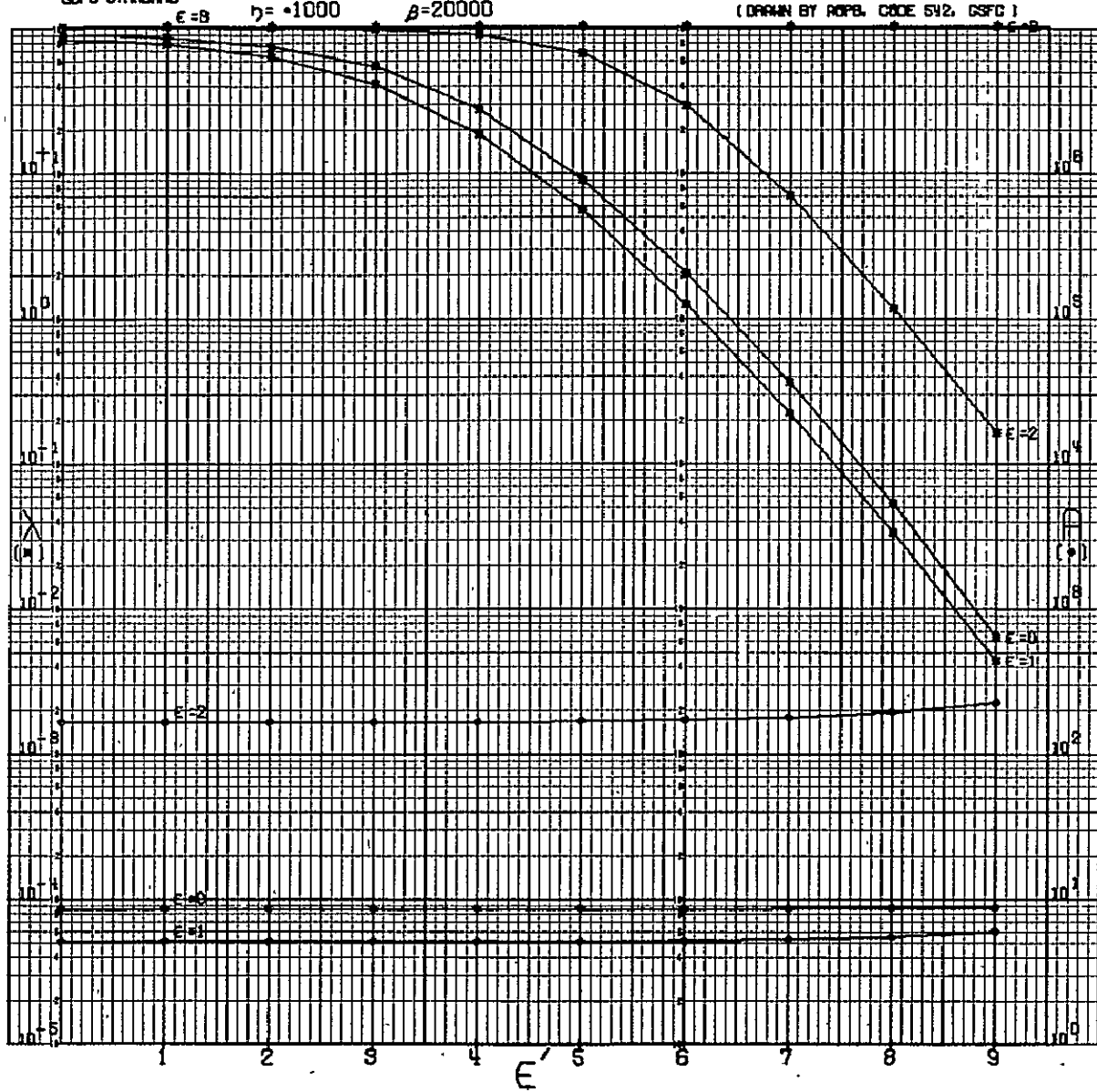
N = 20

CODE 11101101111000100000
GSFC STANDARD

$\eta = +1000$

$\beta = 20000$

(DRAWN BY ADPBL CODE 542, GSFC)



$$N = 21$$

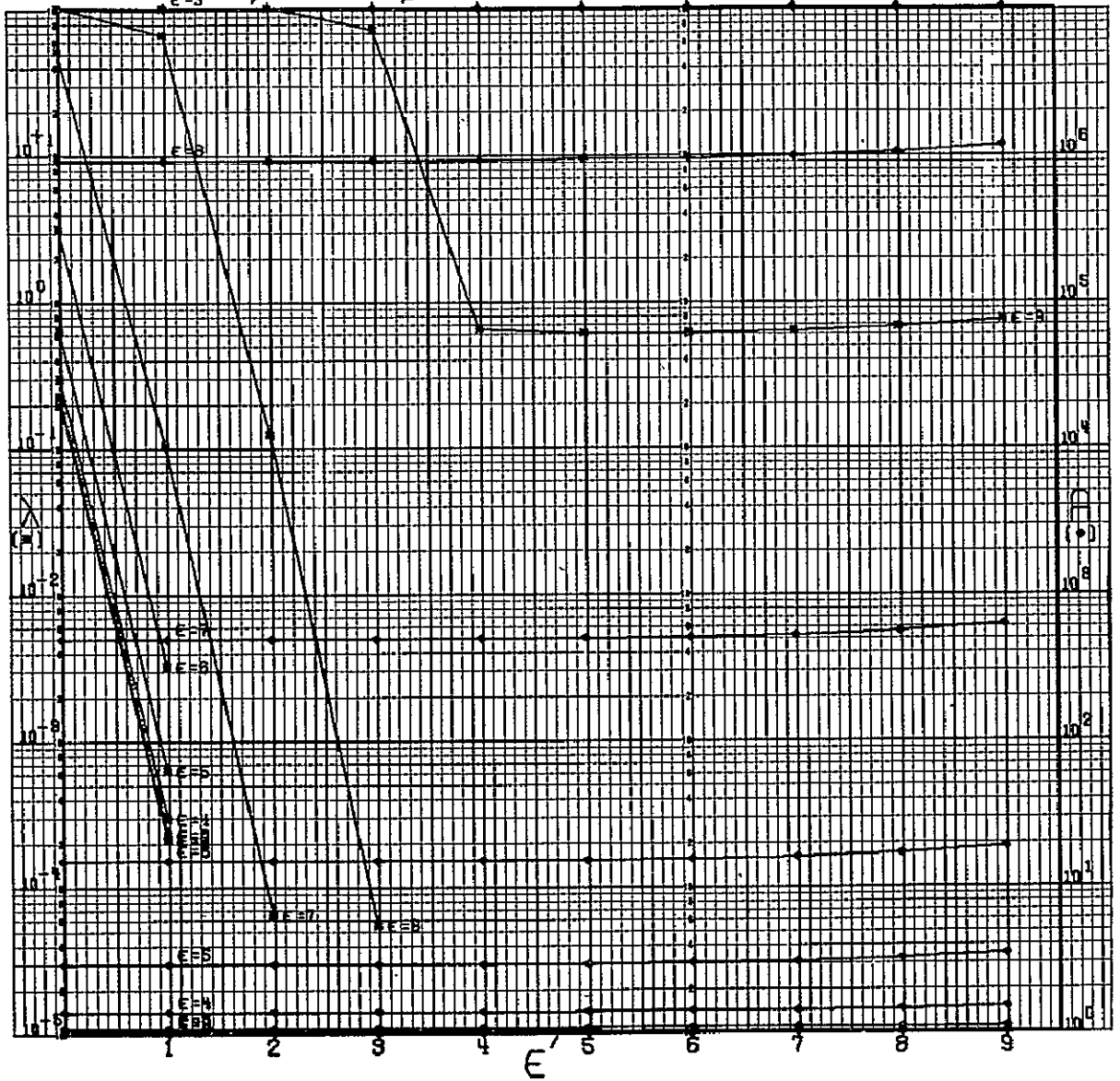
N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 9$ $\eta = .0001$

$\beta = 50$

(DRAWN BY ROPS, CODE 542, GSFC)



N = 21

CODE 111611101001011000000

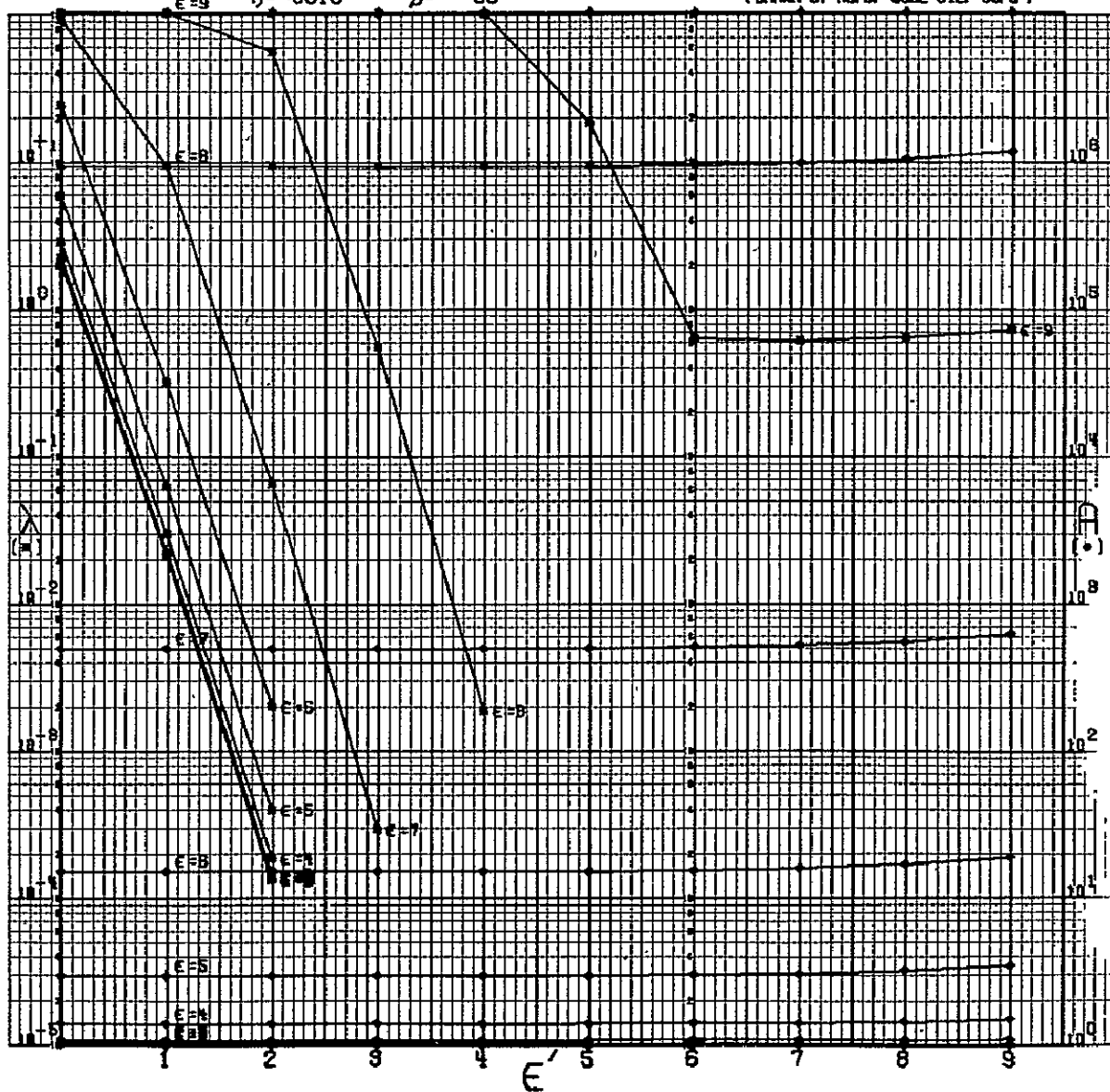
GSFC STANDARD

$\epsilon = 9$

$\eta = .0010$

$\beta = 50$

(DRAWN BY ROPB. CODE 542. GSFC)



N=21

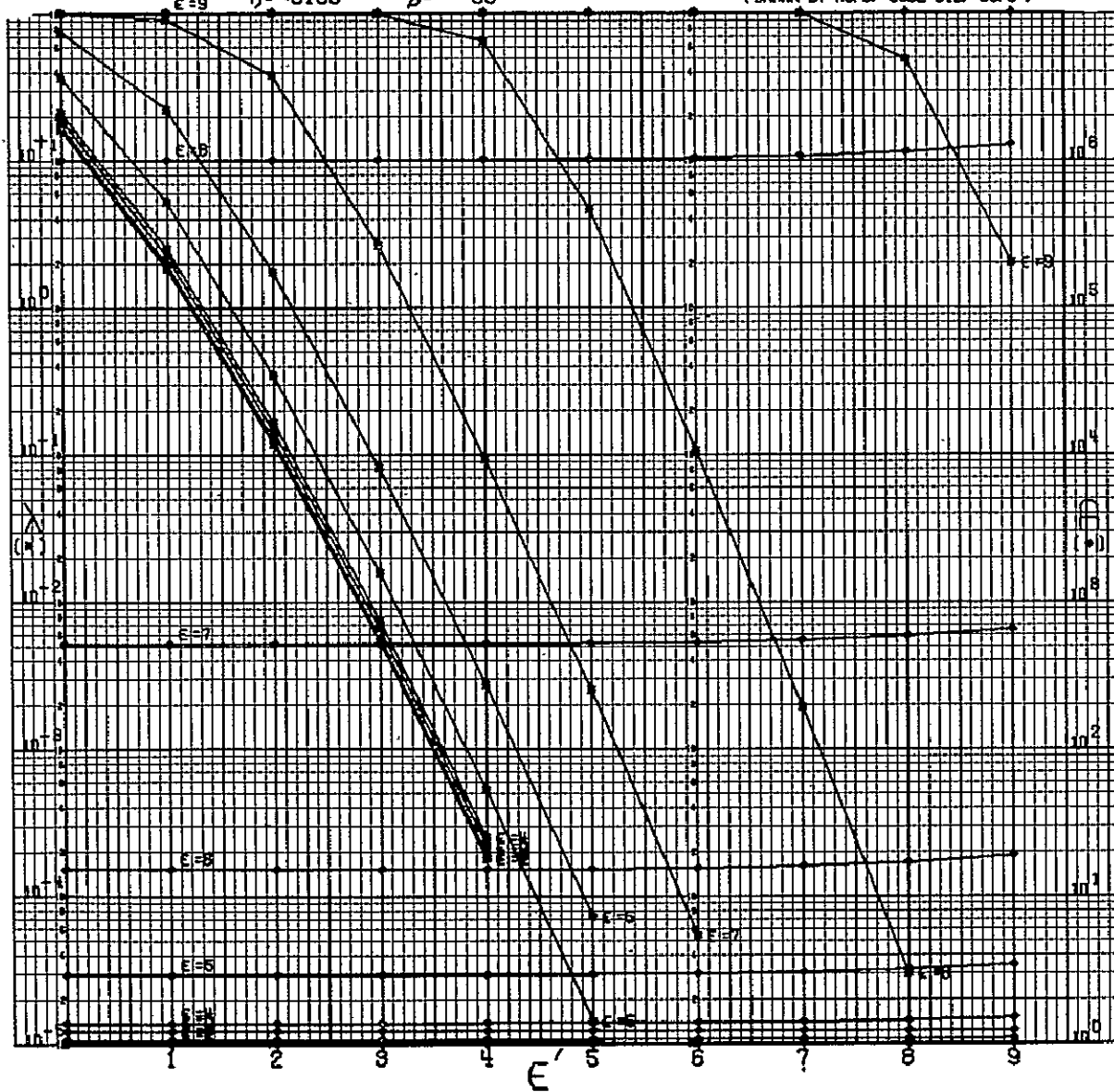
CODE 111013101001011000000

GSFC STANDARD

$\epsilon = 9$ $\eta = 0.100$

$\beta = 50$

(DRAWN BY ACP6, CODE 542, GSFC)



N=21

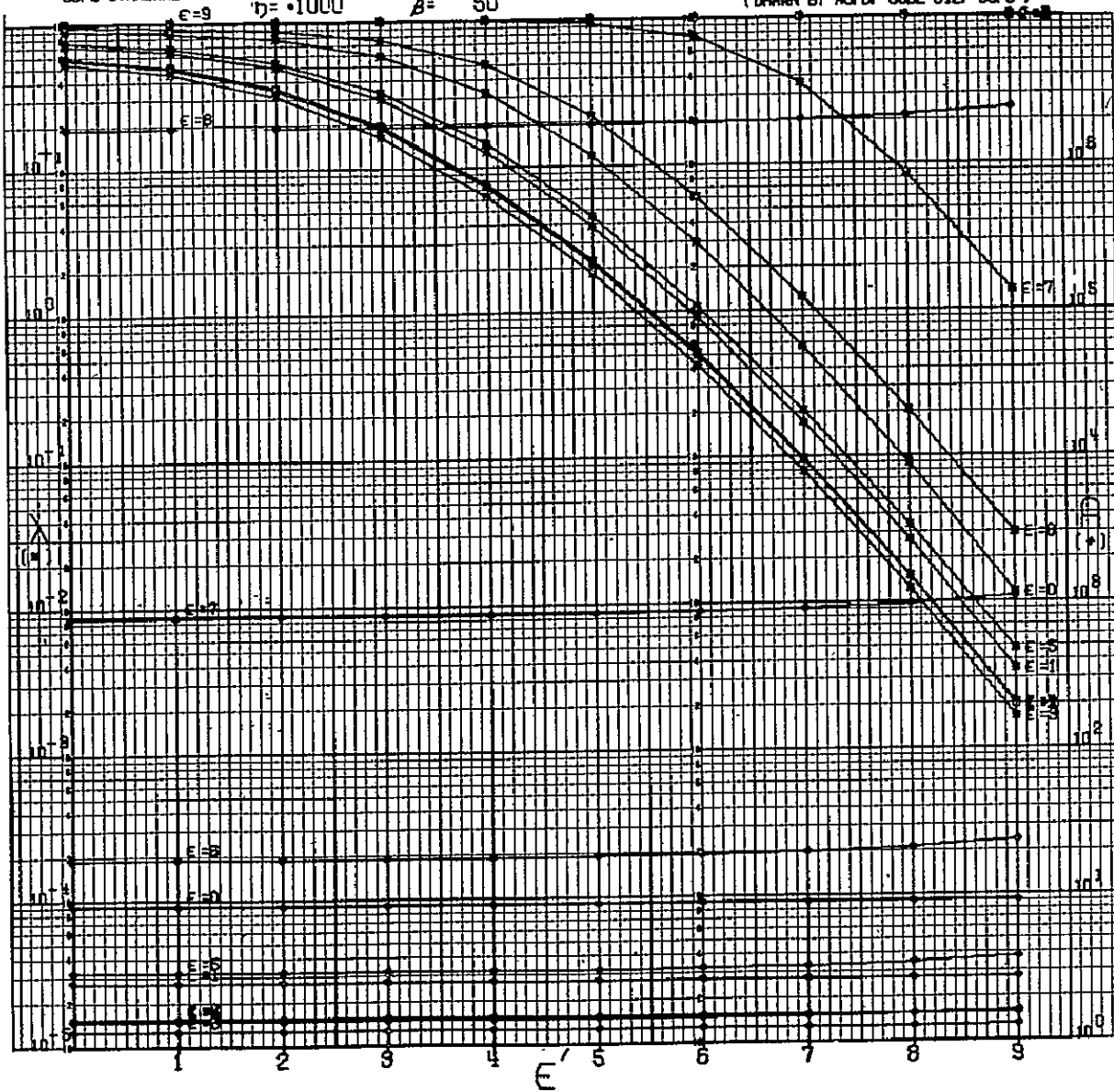
CODE 111011101001011000000

GSFC STANDARD

$\epsilon=9$ $\eta=1000$

$\beta=50$

(DRAWN BY ACPB, CODE 542, GSFC)



N=21

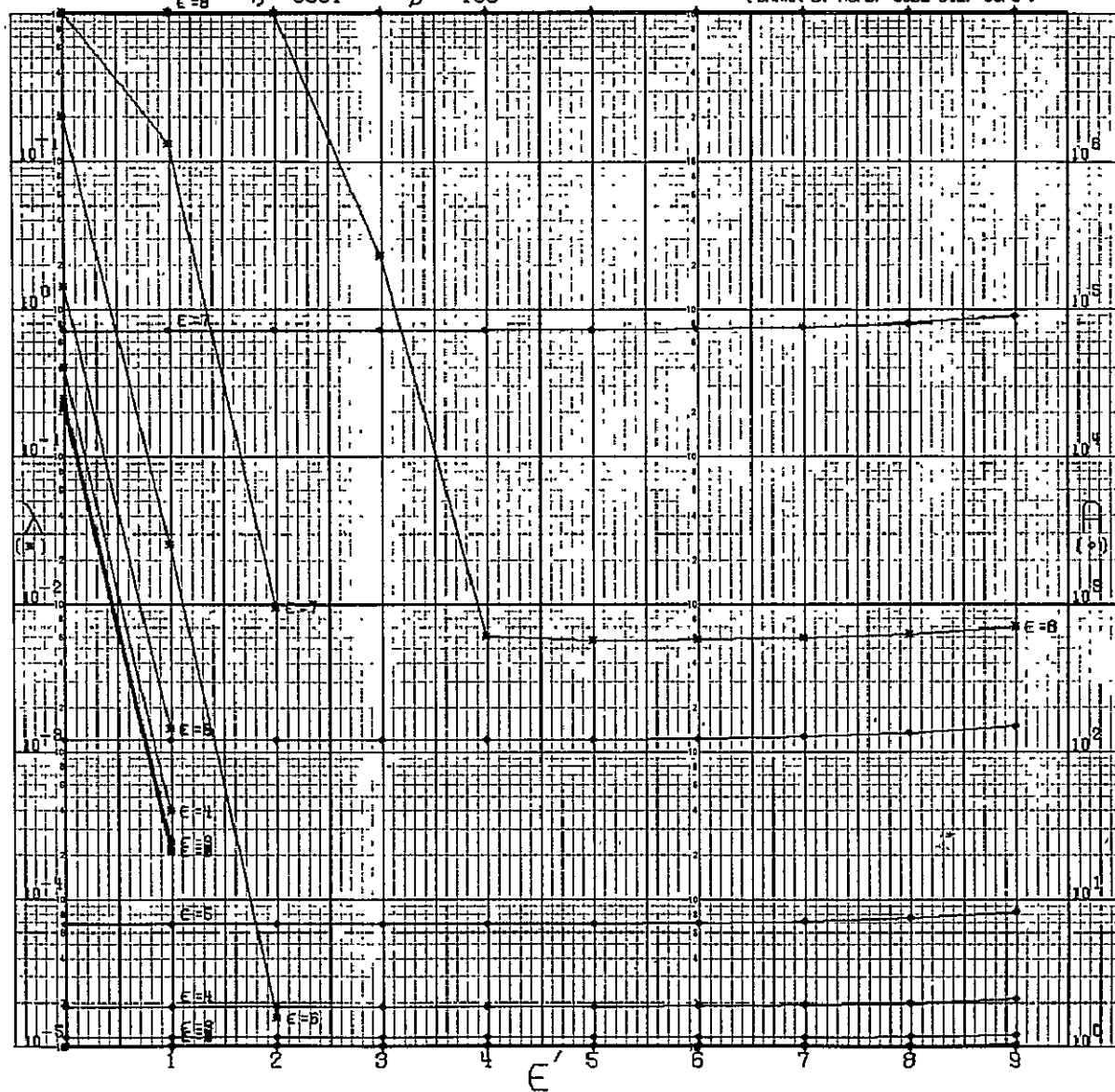
CODE 111011101001011000000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY RSPB, CODE 542, GSFC)



N=21

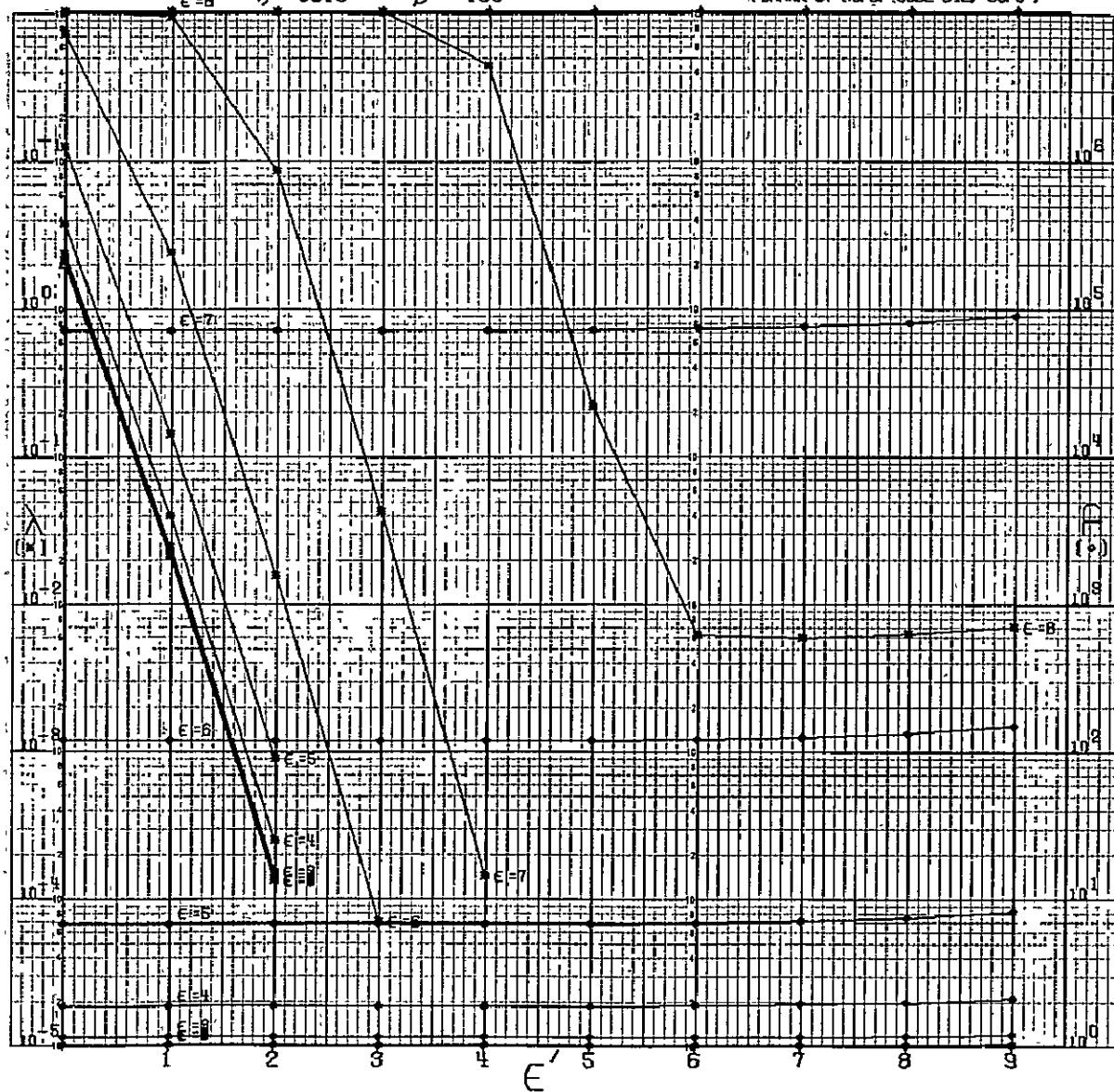
CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



A-440

N=21

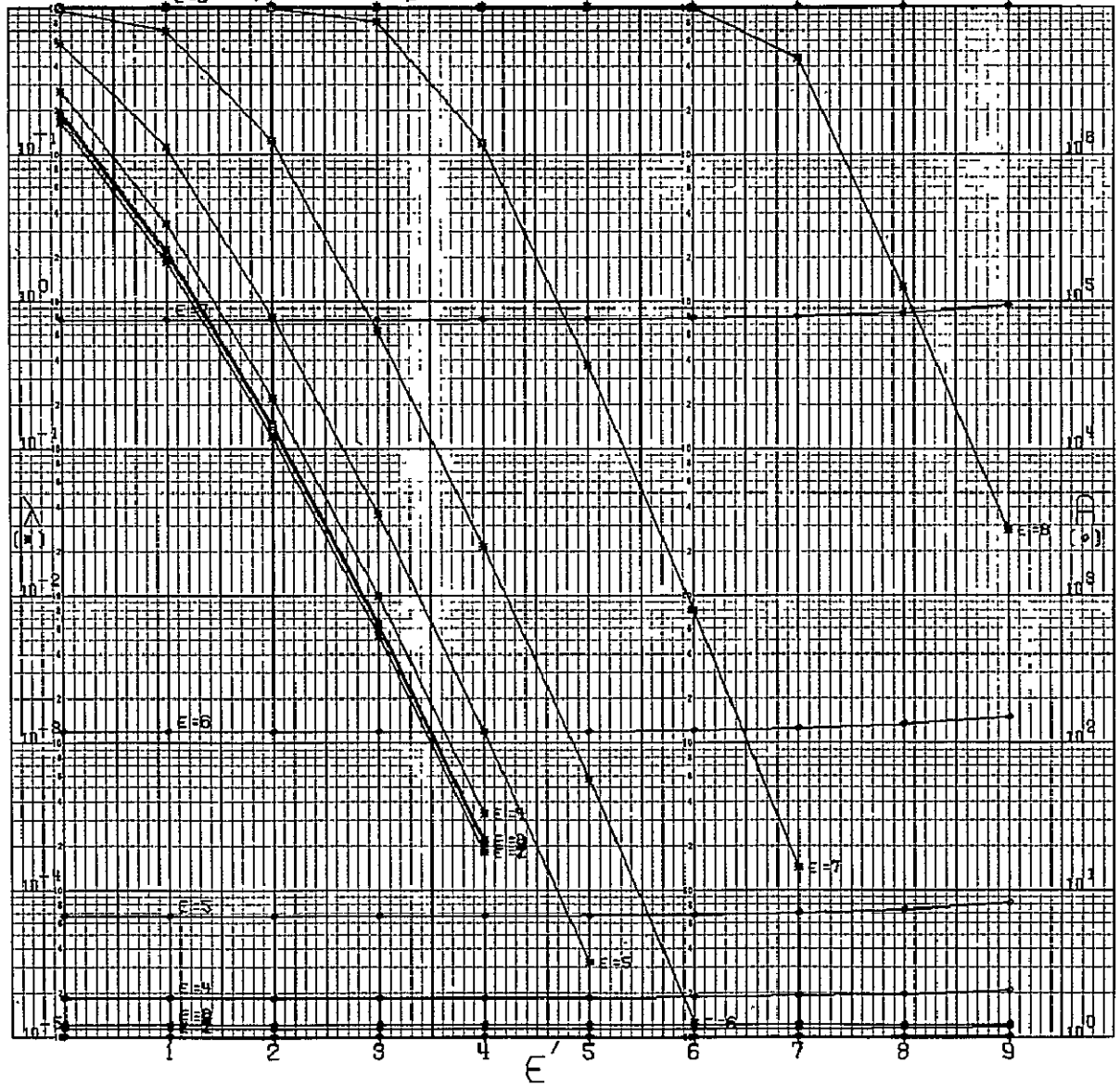
CODE 111011101001011000000

GSFC STANDARD

$\eta = 0.0100$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



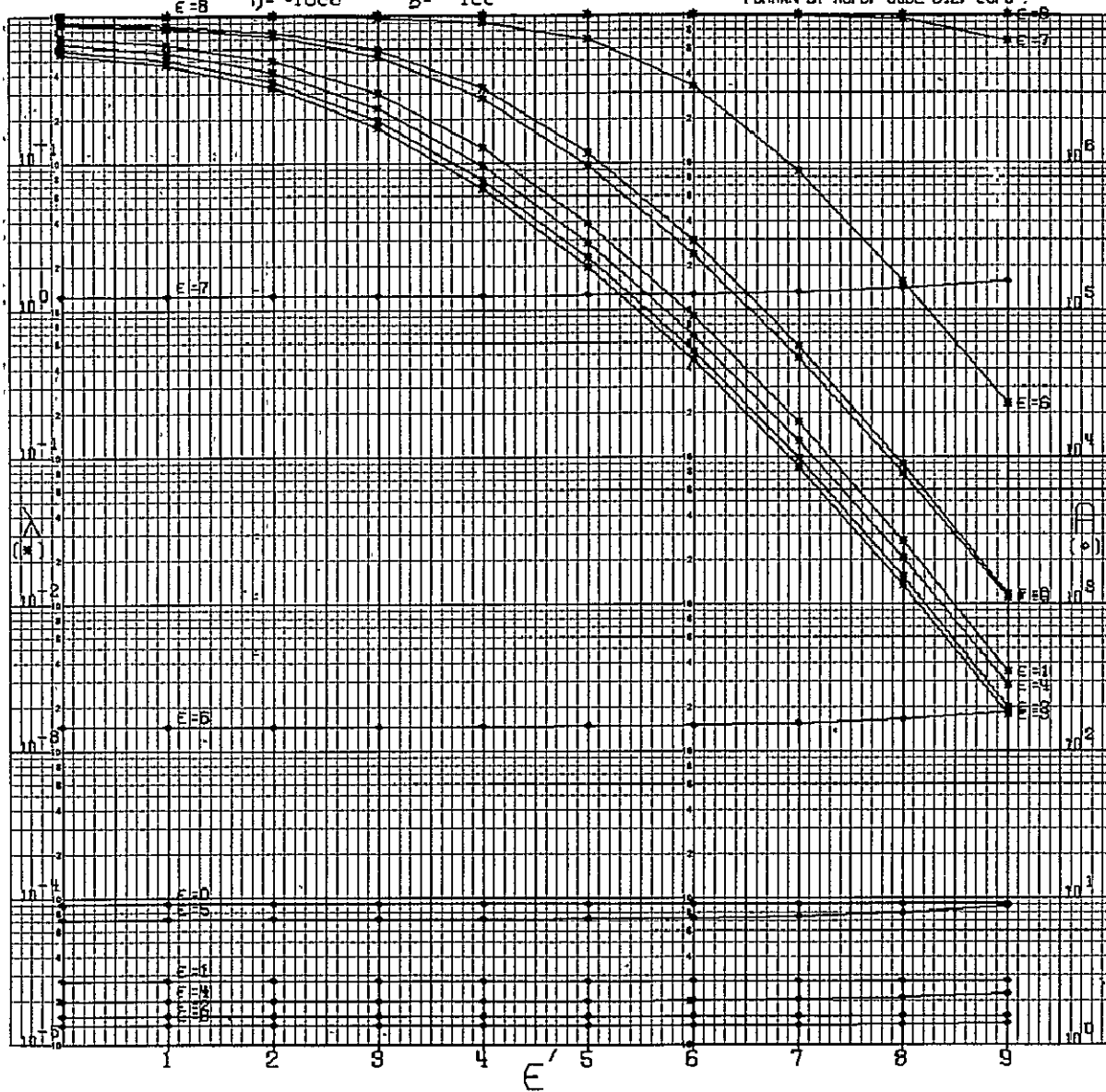
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ADPB, CODE 542, GSFC)



N=21

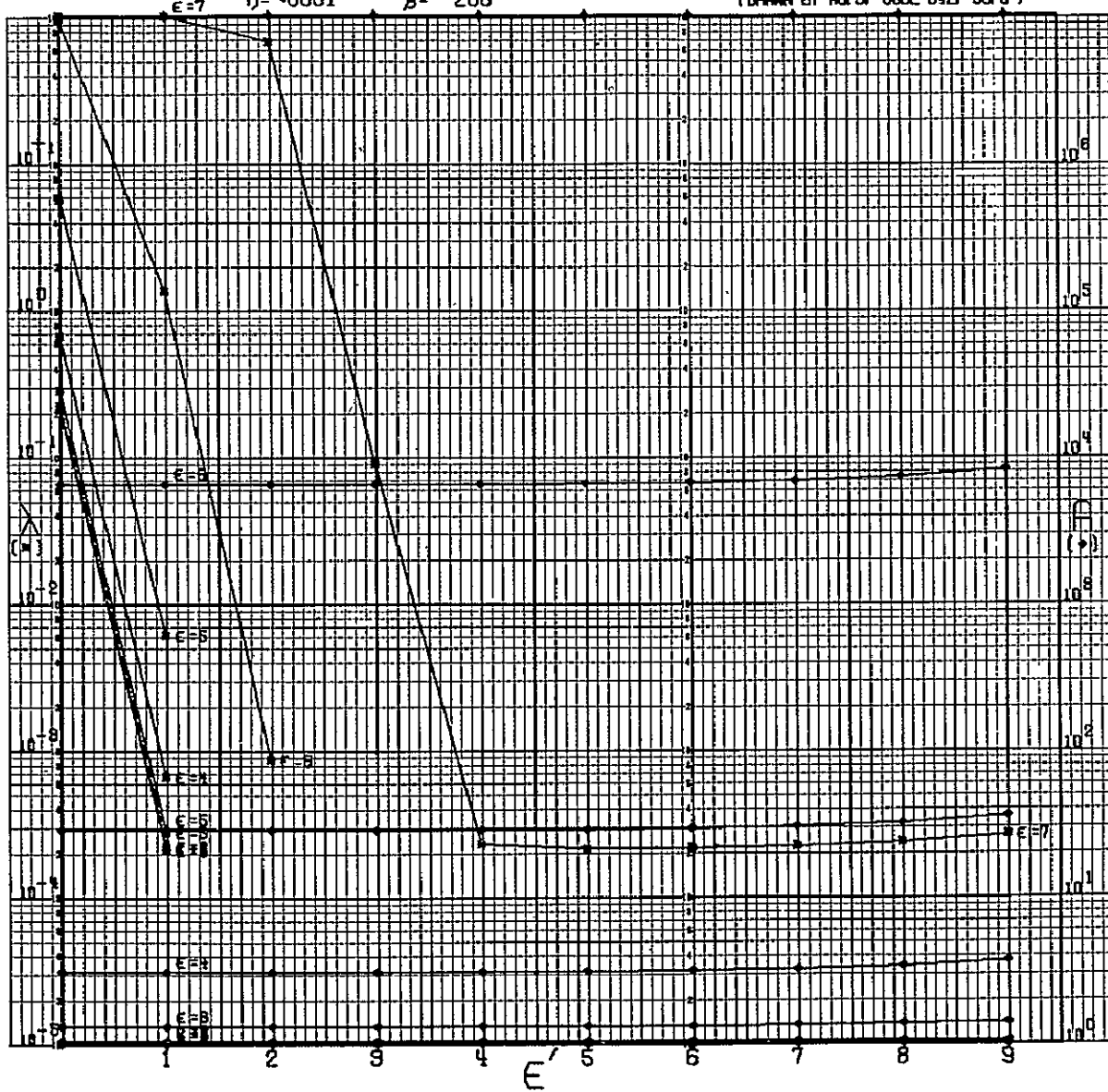
CODE 111011101001011000000

GSFC STANDARD

$\eta = 0.0001$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSFC)



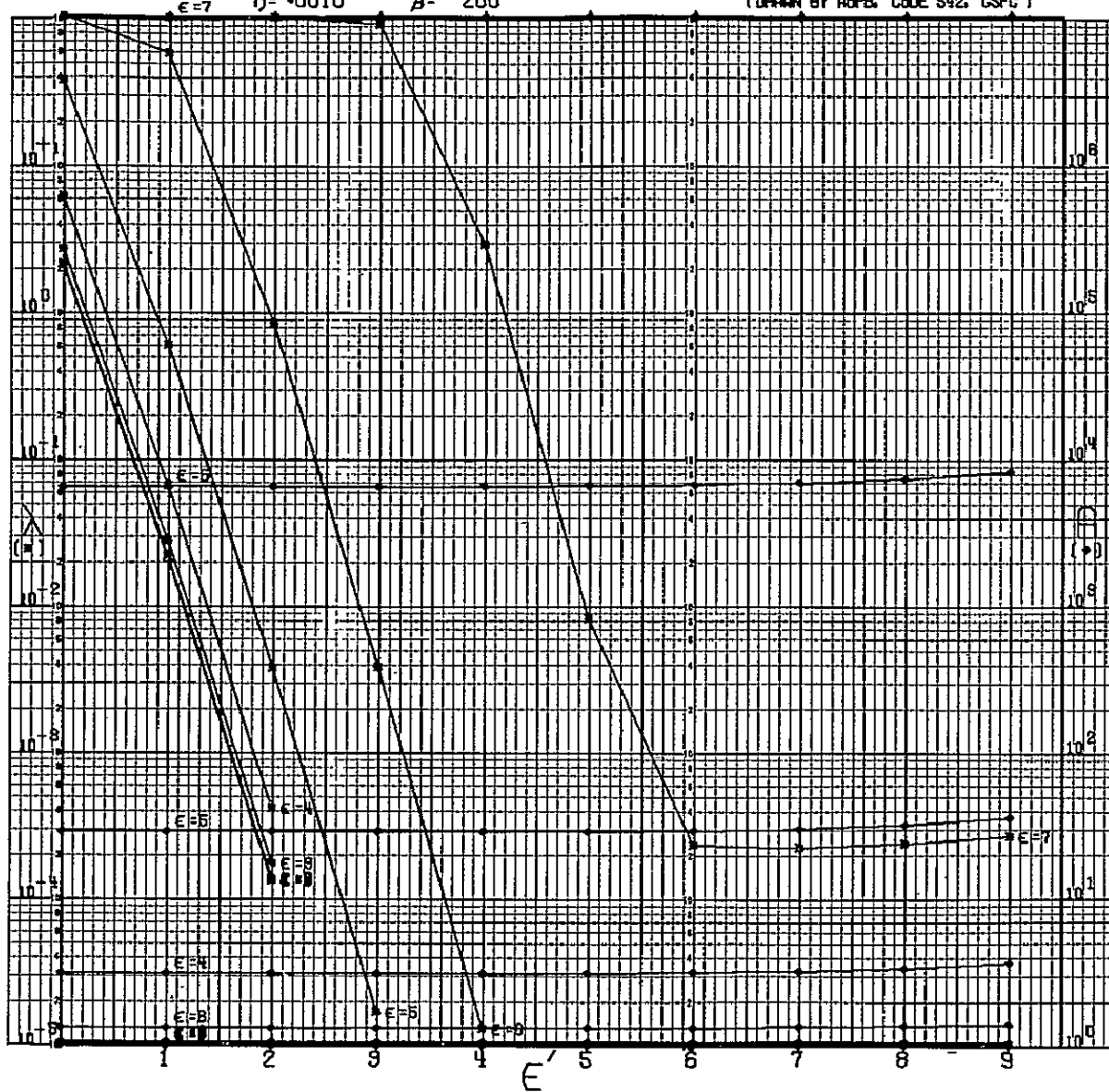
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



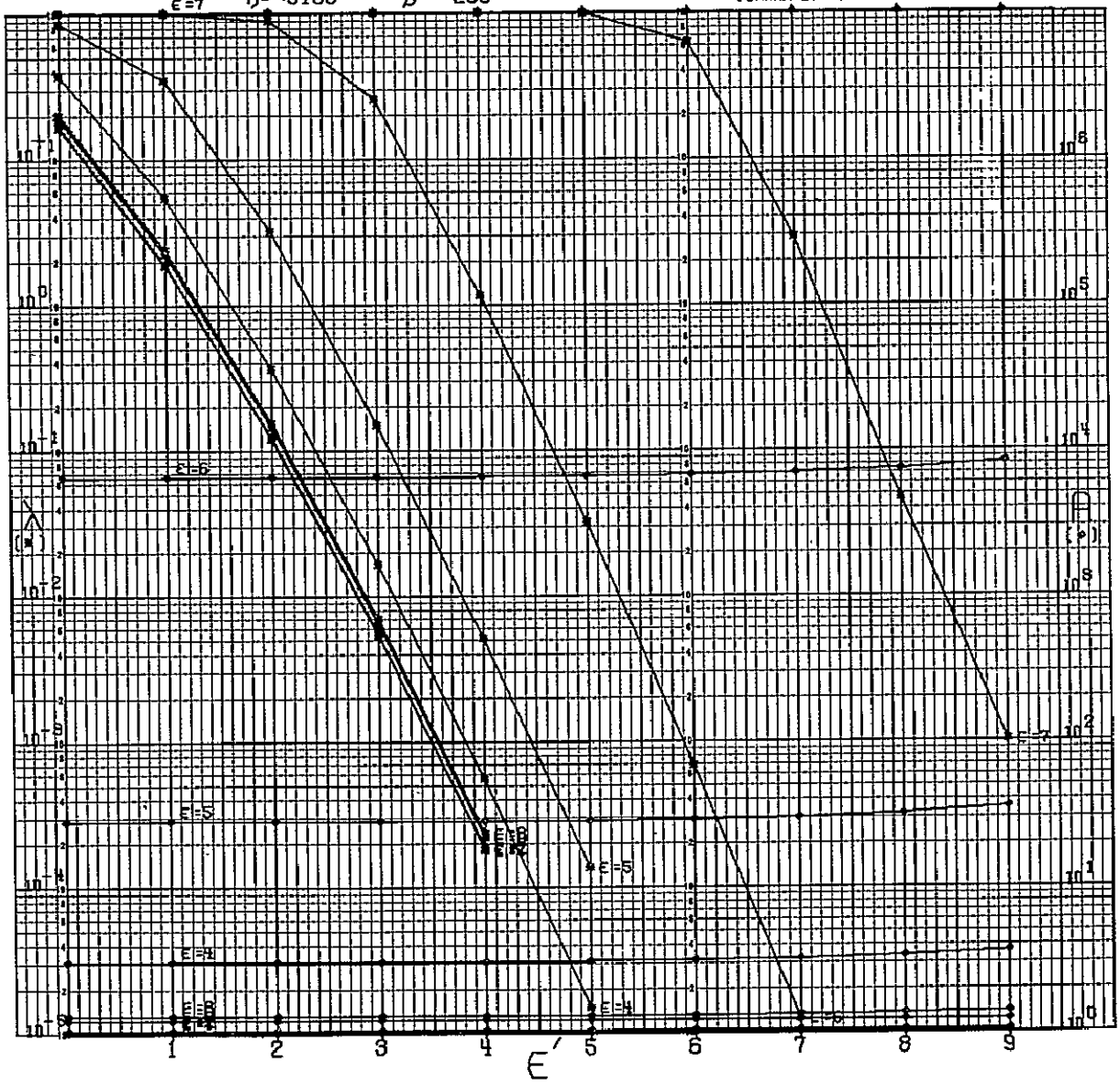
A-444

N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 7$ $\eta = .0100$ $\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



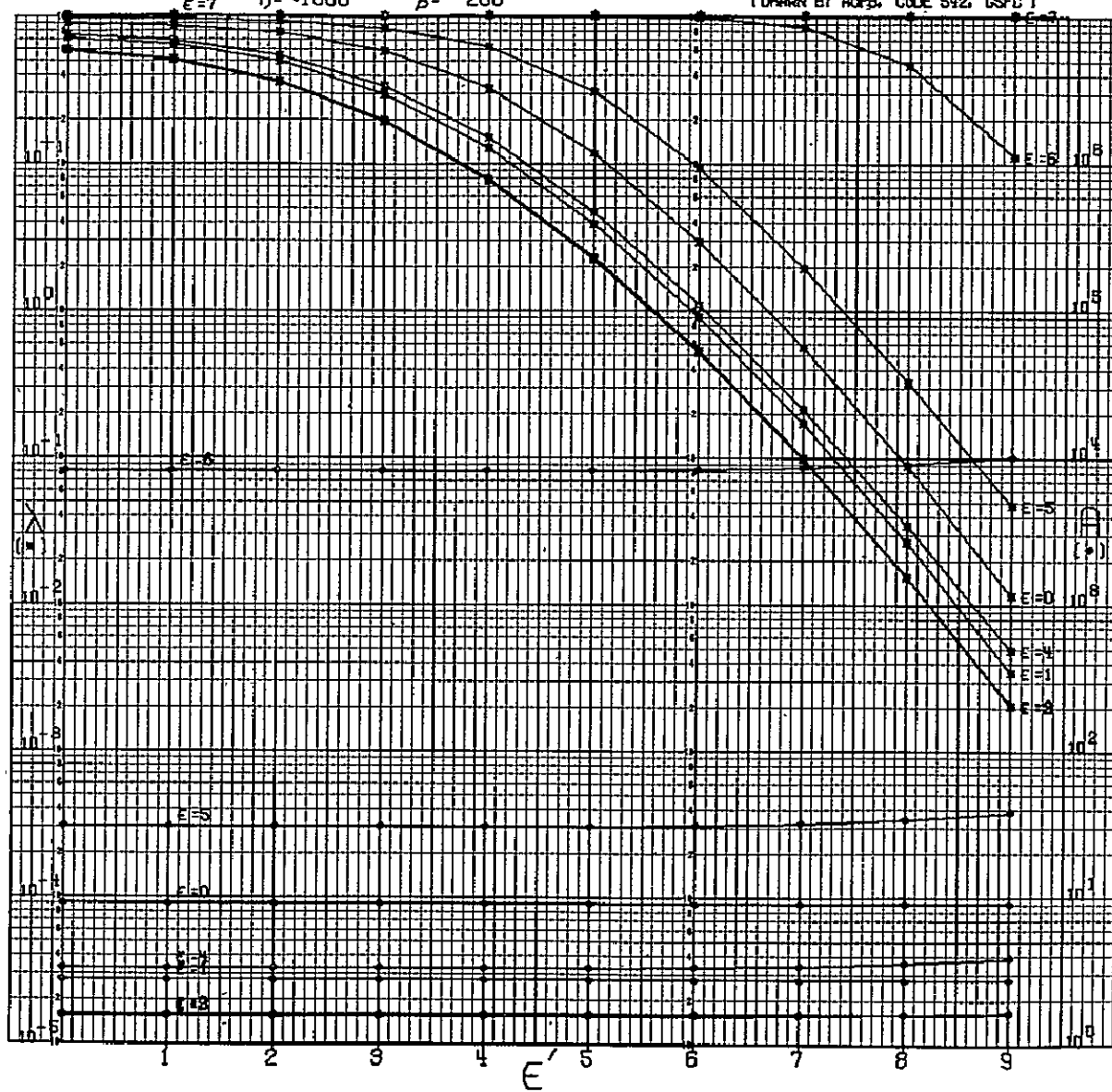
N = 21

CODE 111011101001011000000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY RCF3, CODE 542, GSFC)



N=21

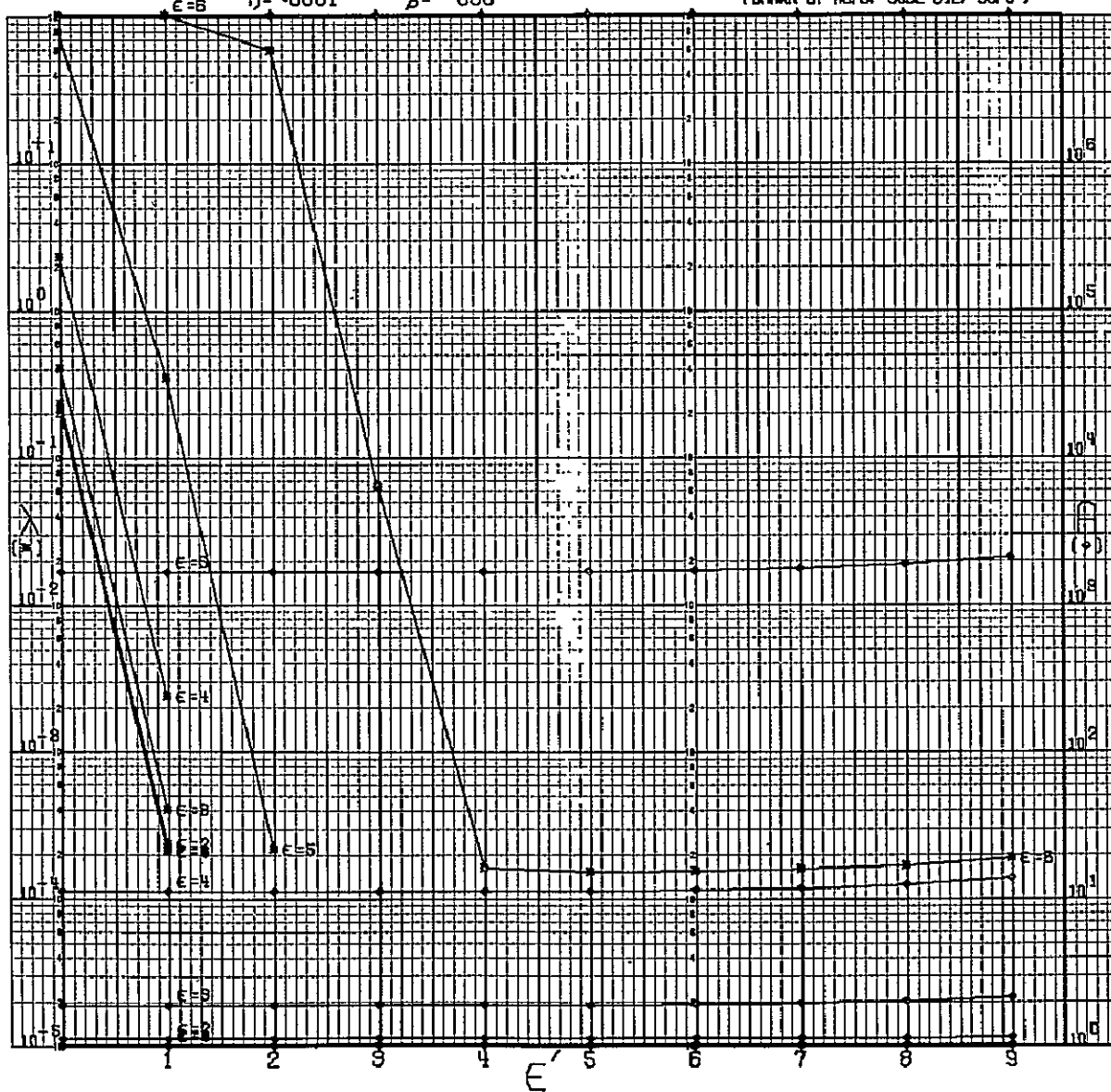
CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 6$ $\eta = .0001$

$\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



N=21

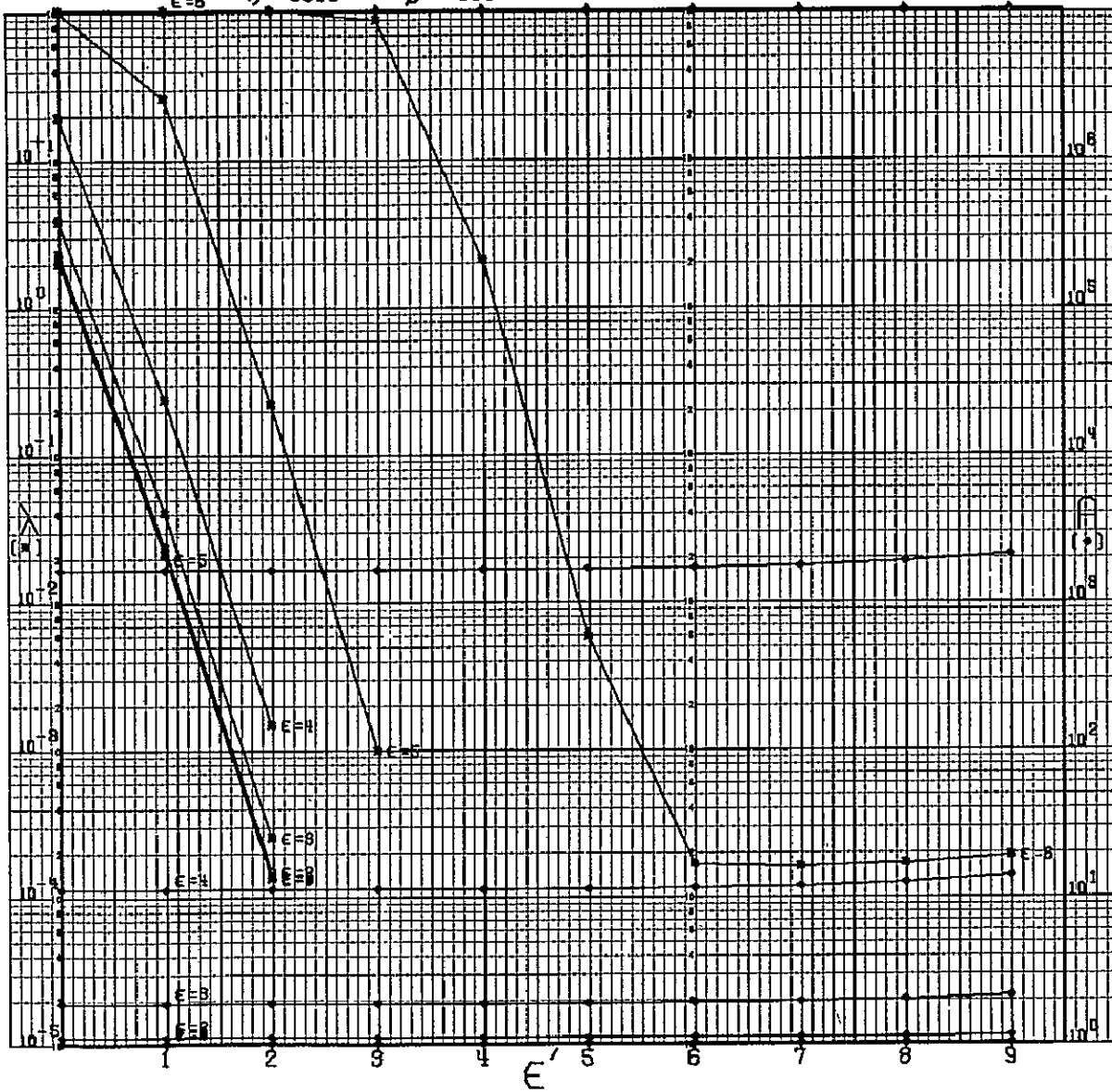
CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 6$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROPB. CODE 512. GSFC)

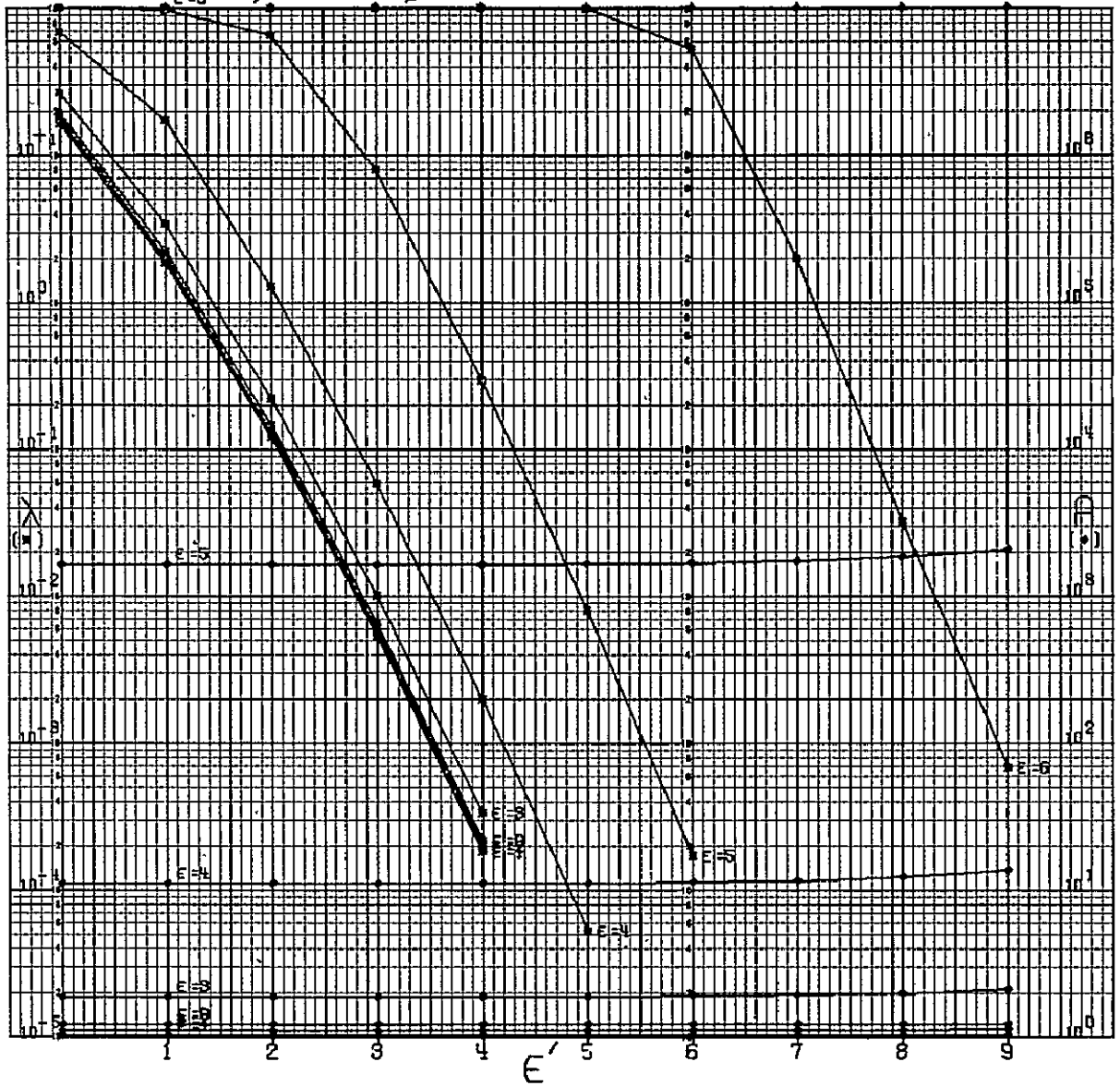


N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 8$ $\eta = -0.100$ $\beta = 500$

(DRAWN BY ACPB, CODE 542, GSFC)



N=21

CODE 111011101001011000000

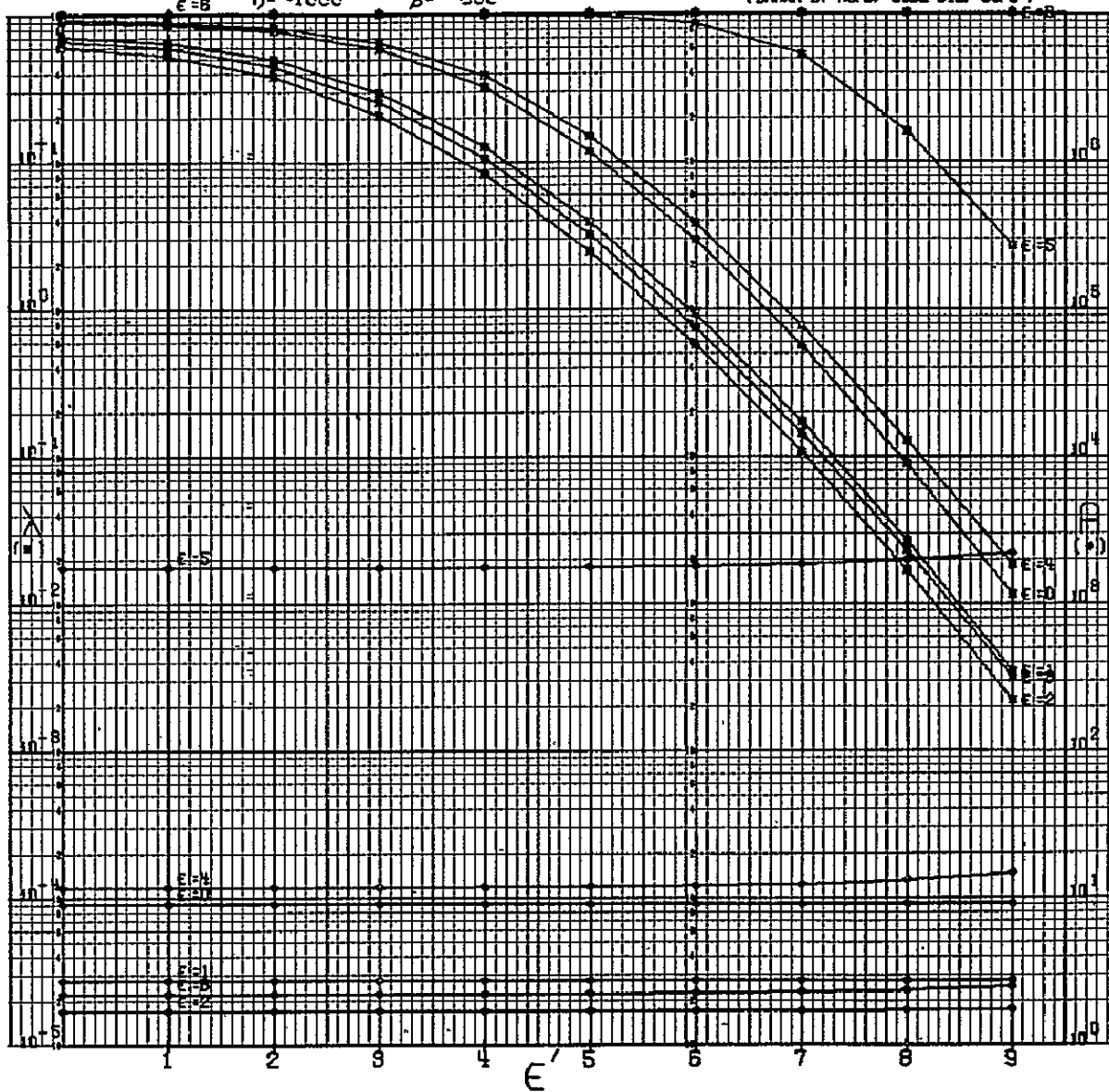
GSFC STANDARD

$\epsilon = 8$

$h = 1000$

$\beta = 500$

(DRAWN BY ADPBL CODE 592, GSFC)



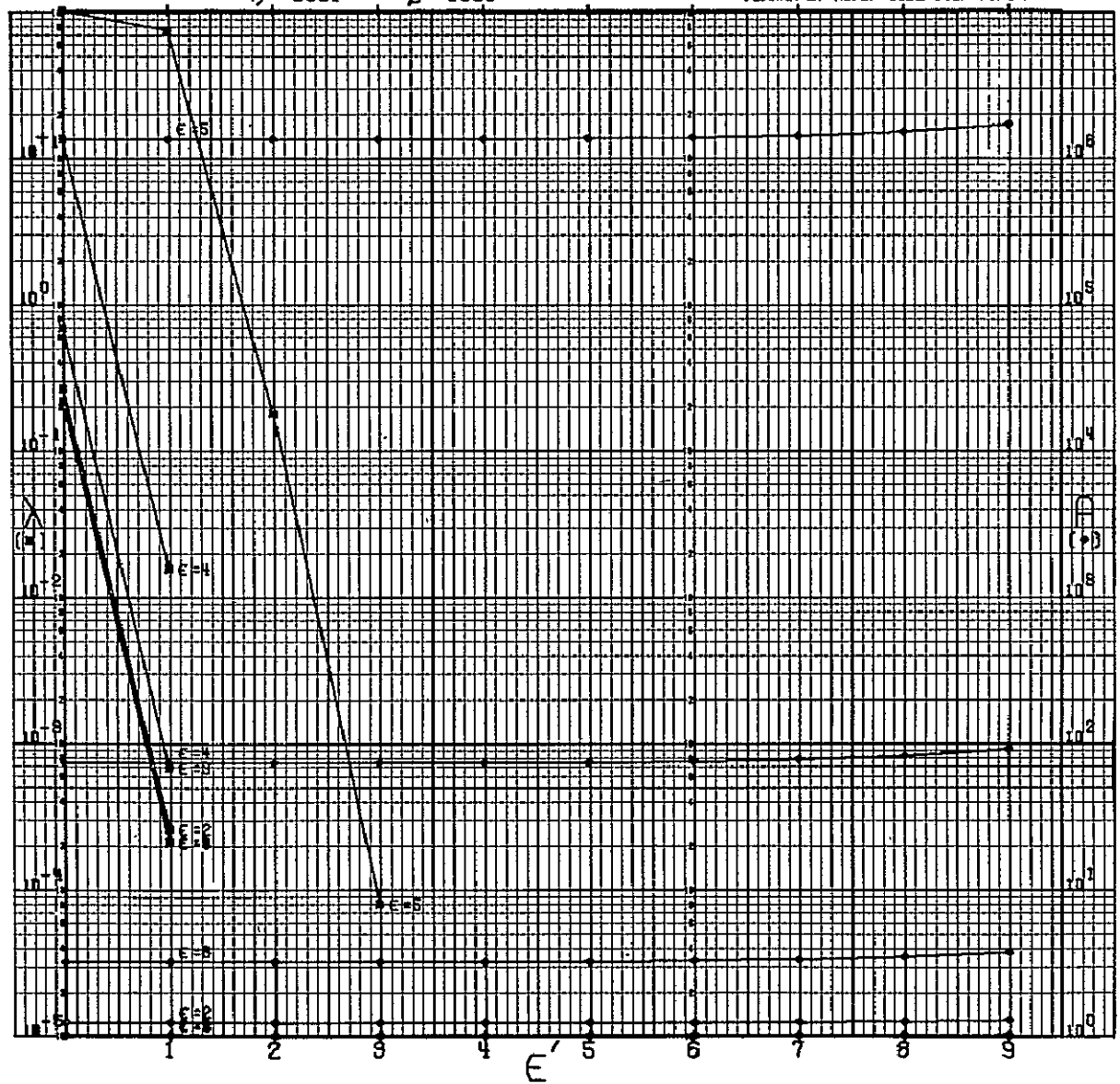
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = .0001$

$\beta = 1000$

(DRAWN BY AOPB, CODE 542, GSFC)



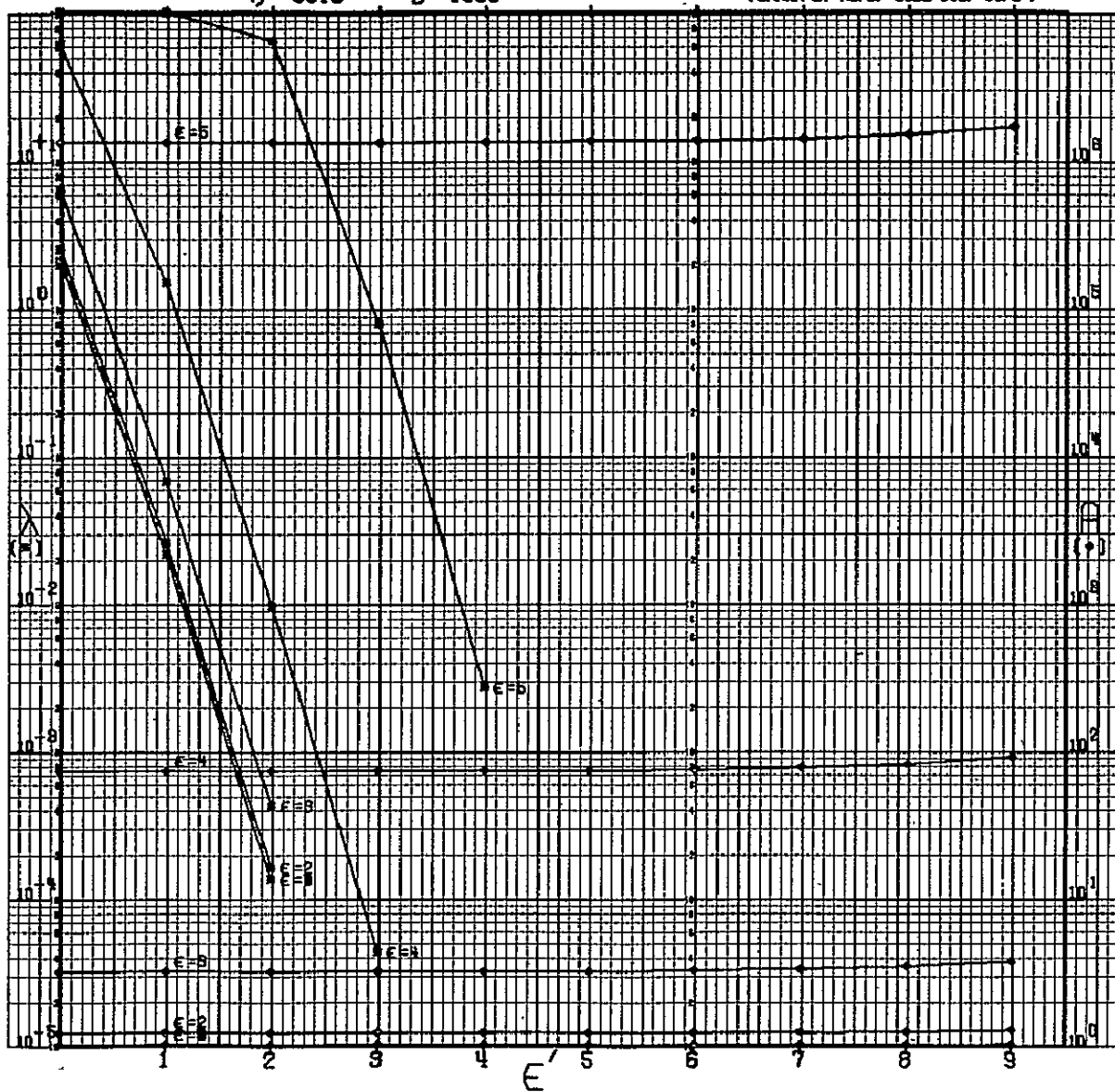
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPS, CODE 512, GSFC)



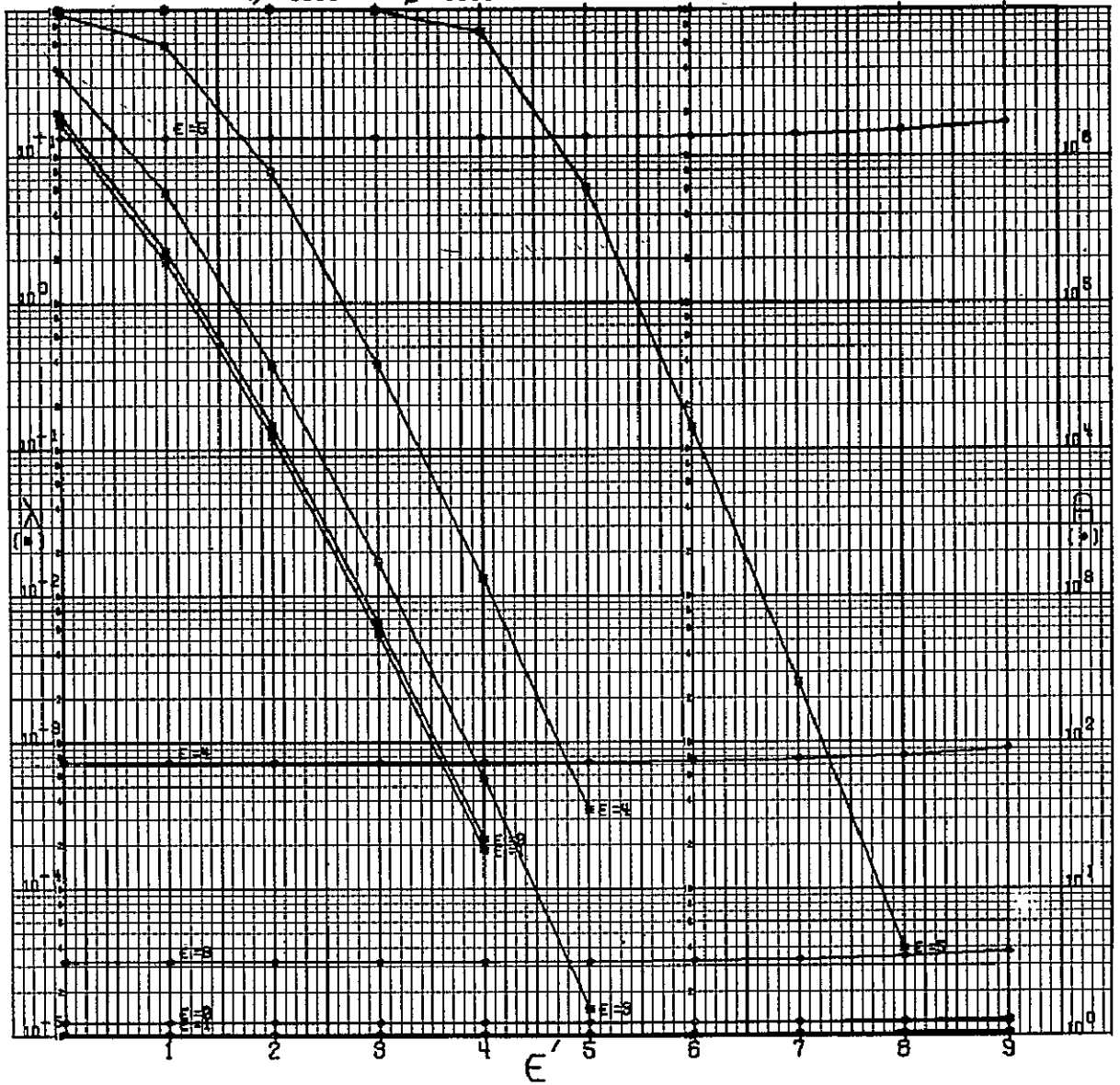
N=21

CODE 111011101001011000000
GFGC STANDARD

$\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPS CODE 542, GFGC)



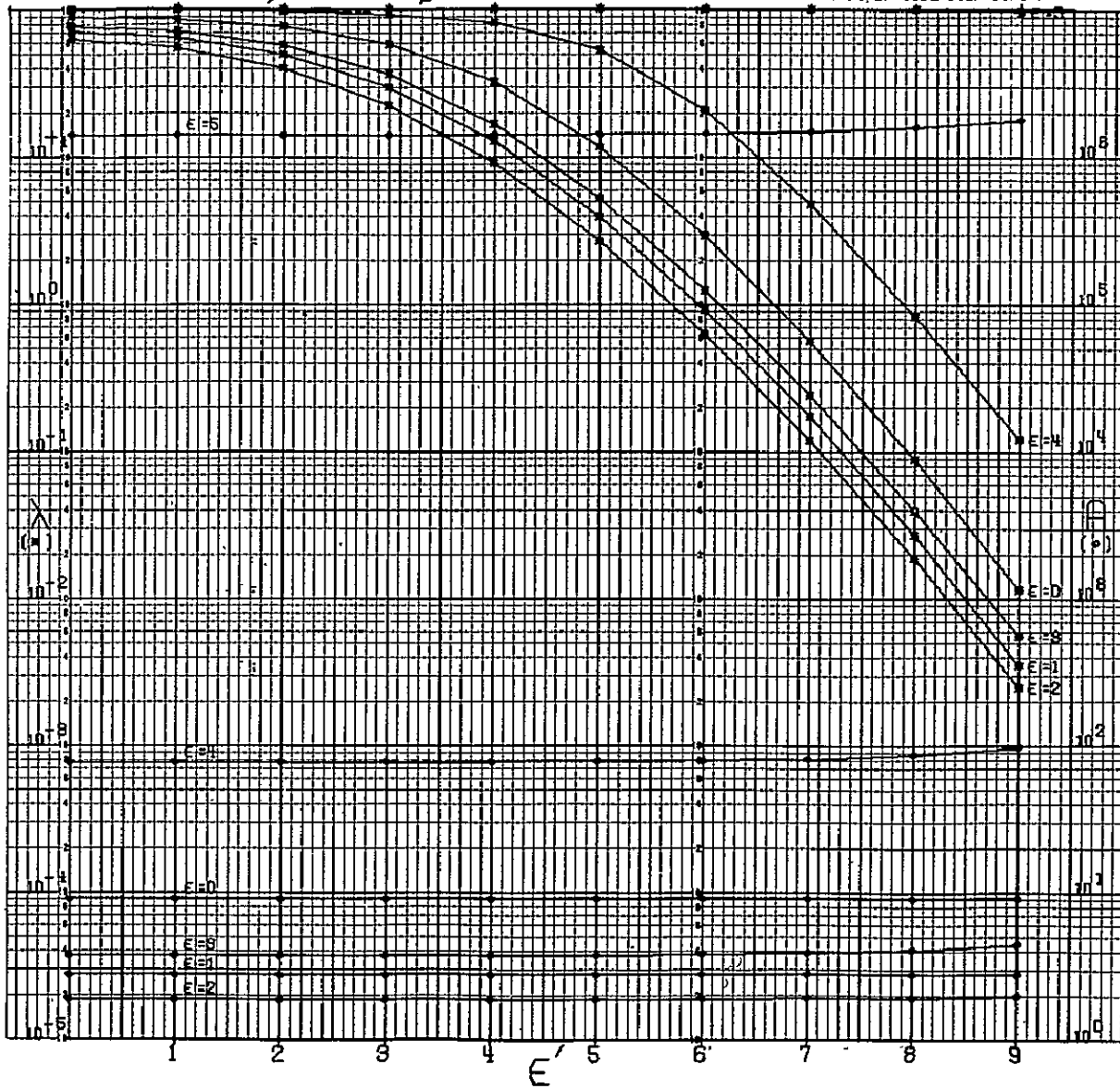
N=21

CODE 111011101001011000000
CSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, CSFC)



A-454

N=21

CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 5$

$\eta = -0001$

$\beta = 2000$

(DRAWN BY ADPB, CODE SV2, GSFC)



N=21

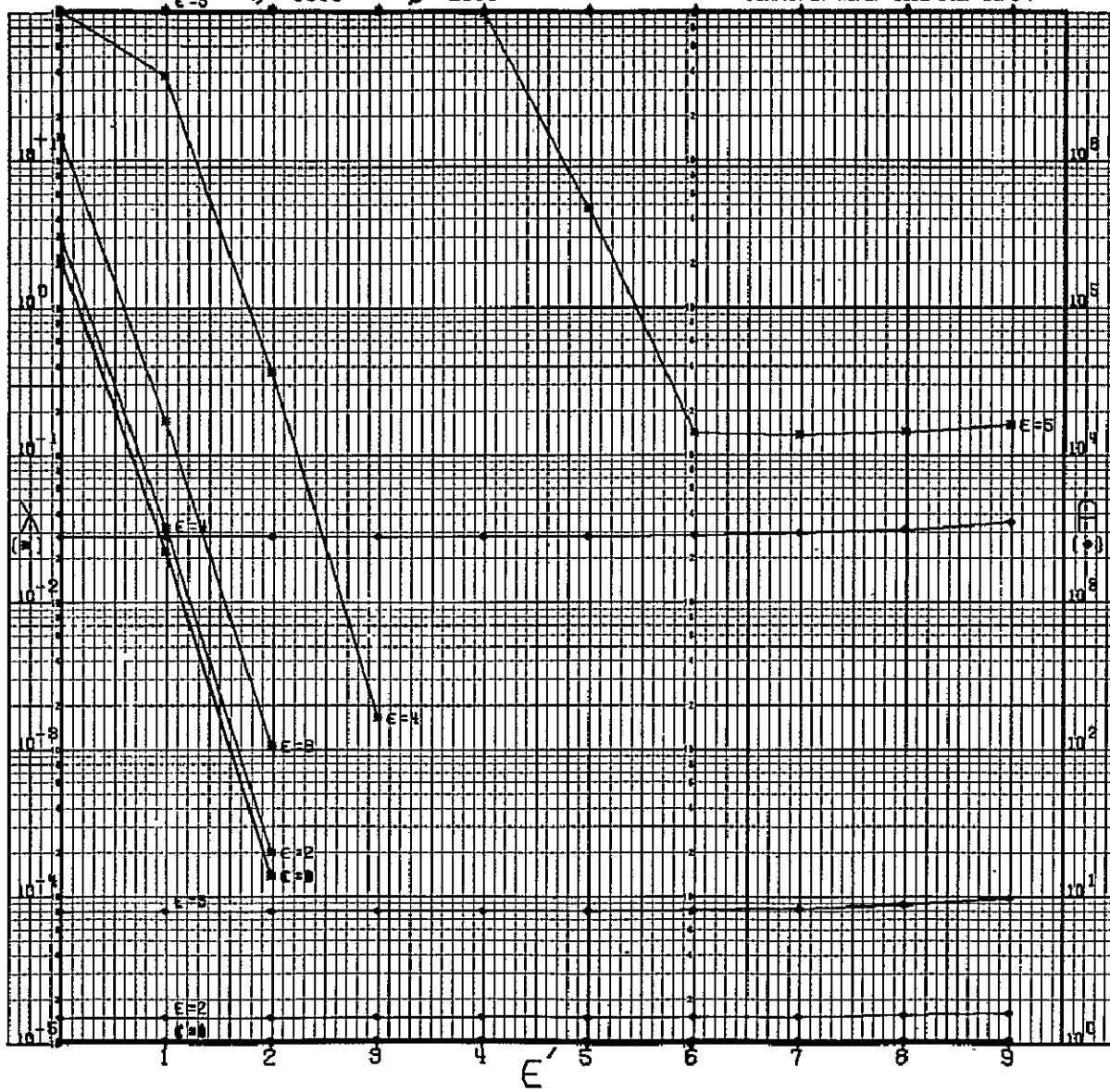
CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 5$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)

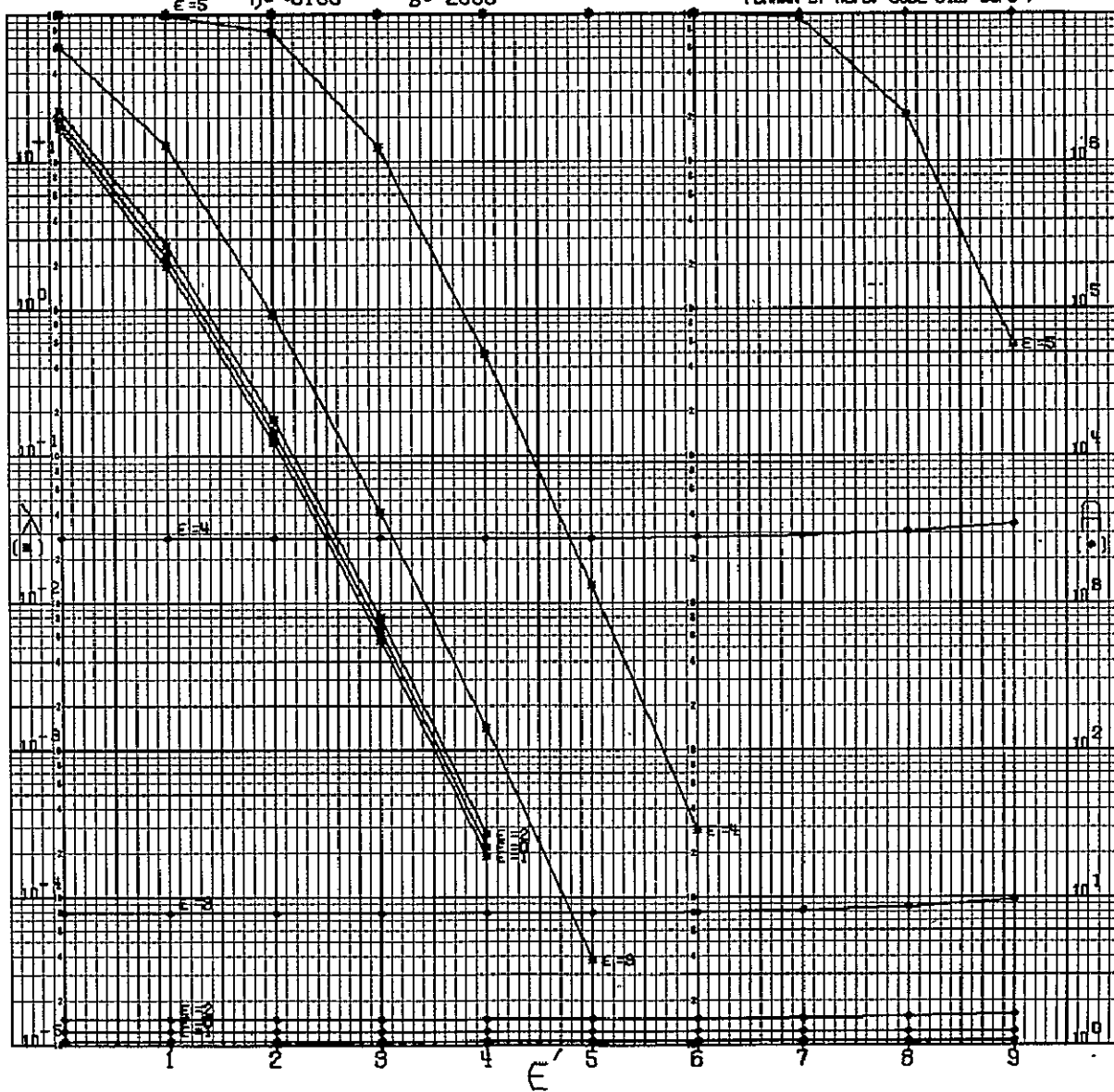


N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 5$ $\eta = 0.100$ $\beta = 2000$

(DRAWN BY RSPB, CODE 542, GSFC 1)



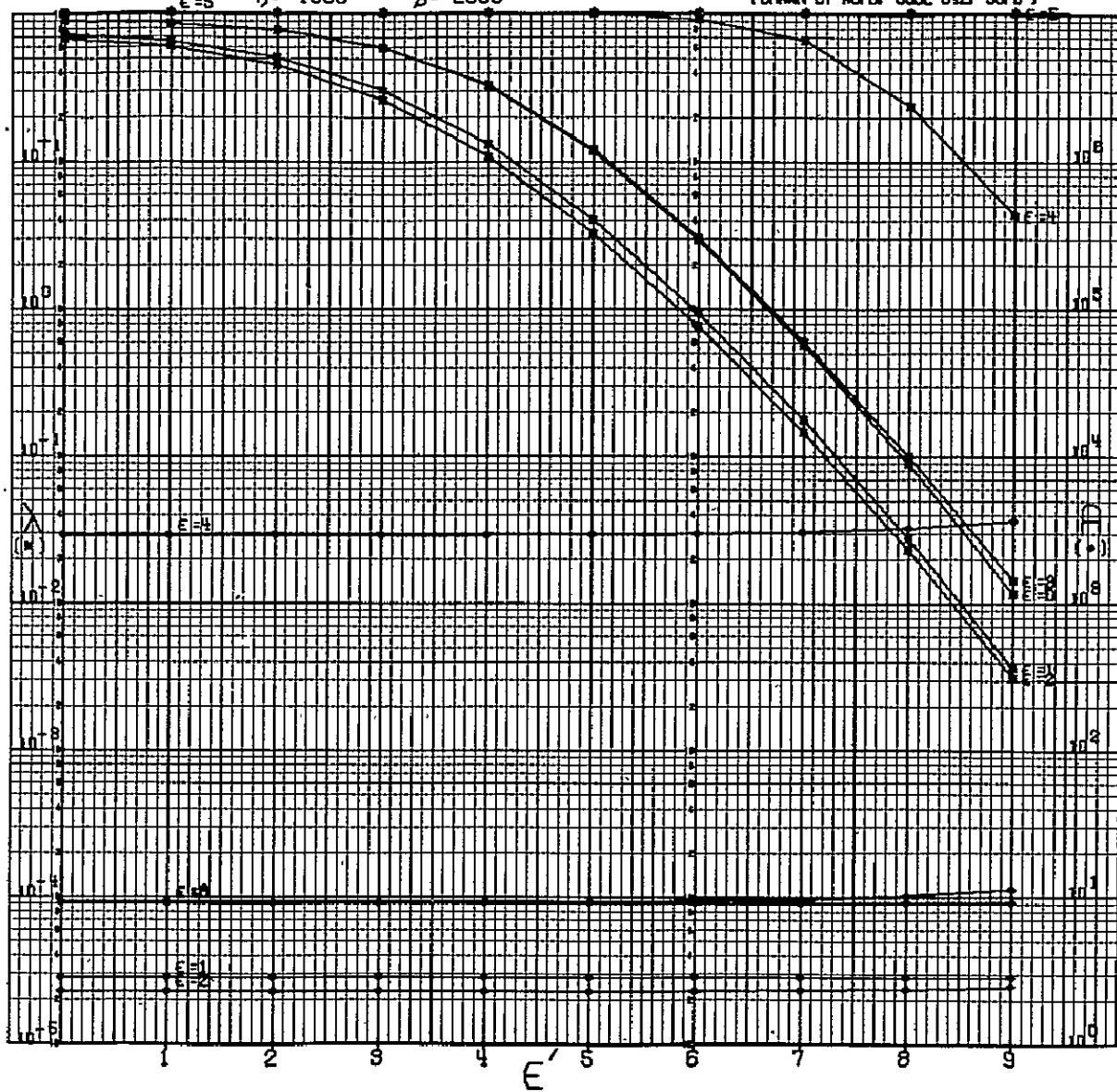
N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 5$ $\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPEL CODE 542, GSFC)



N=21

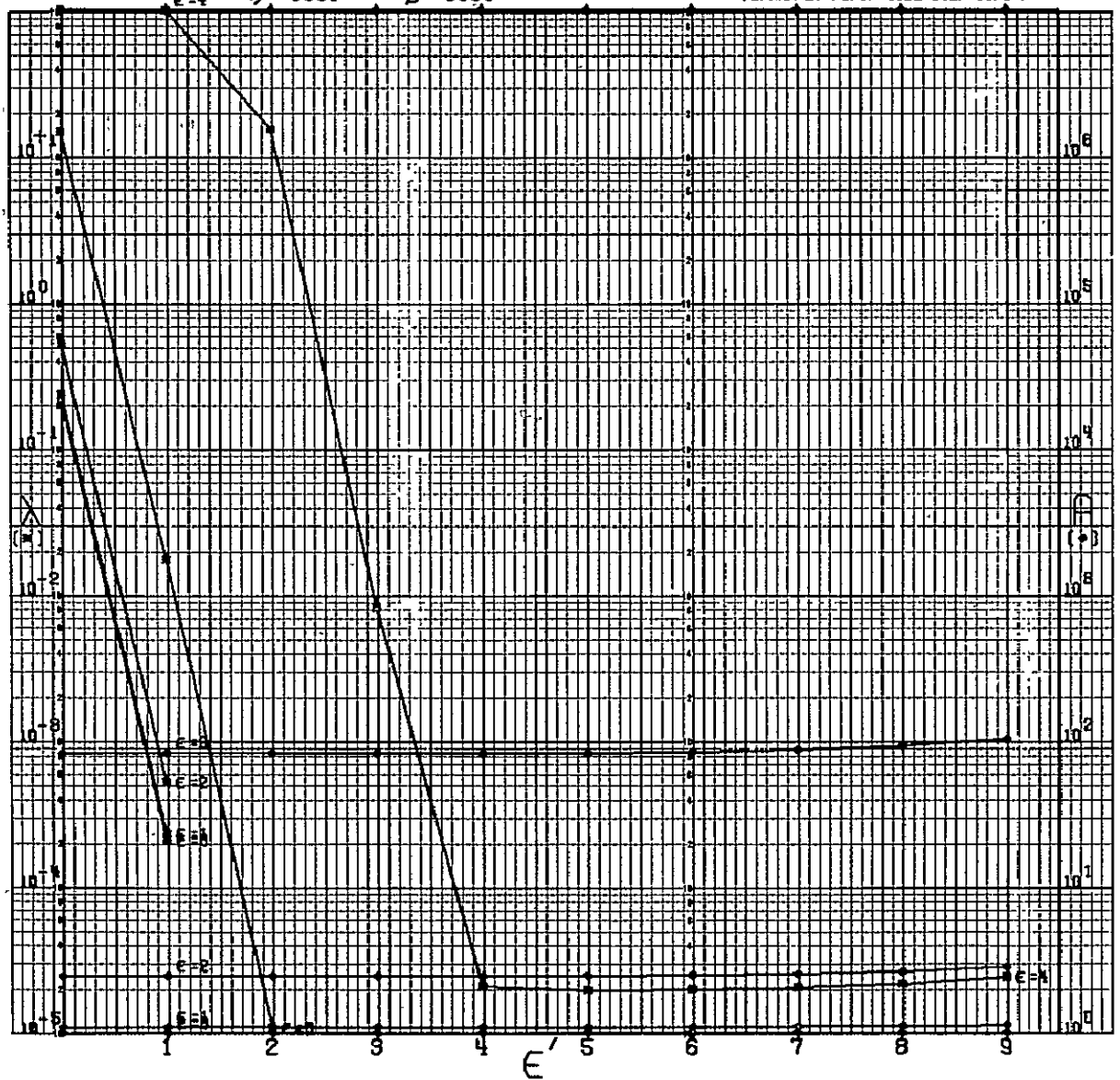
CODE 111011101001011000000

GSFC STANDARD

$b = -0001$

$B = 5000$

(DRAWN BY ADPBL CODE 542, GSFC)



N = 21

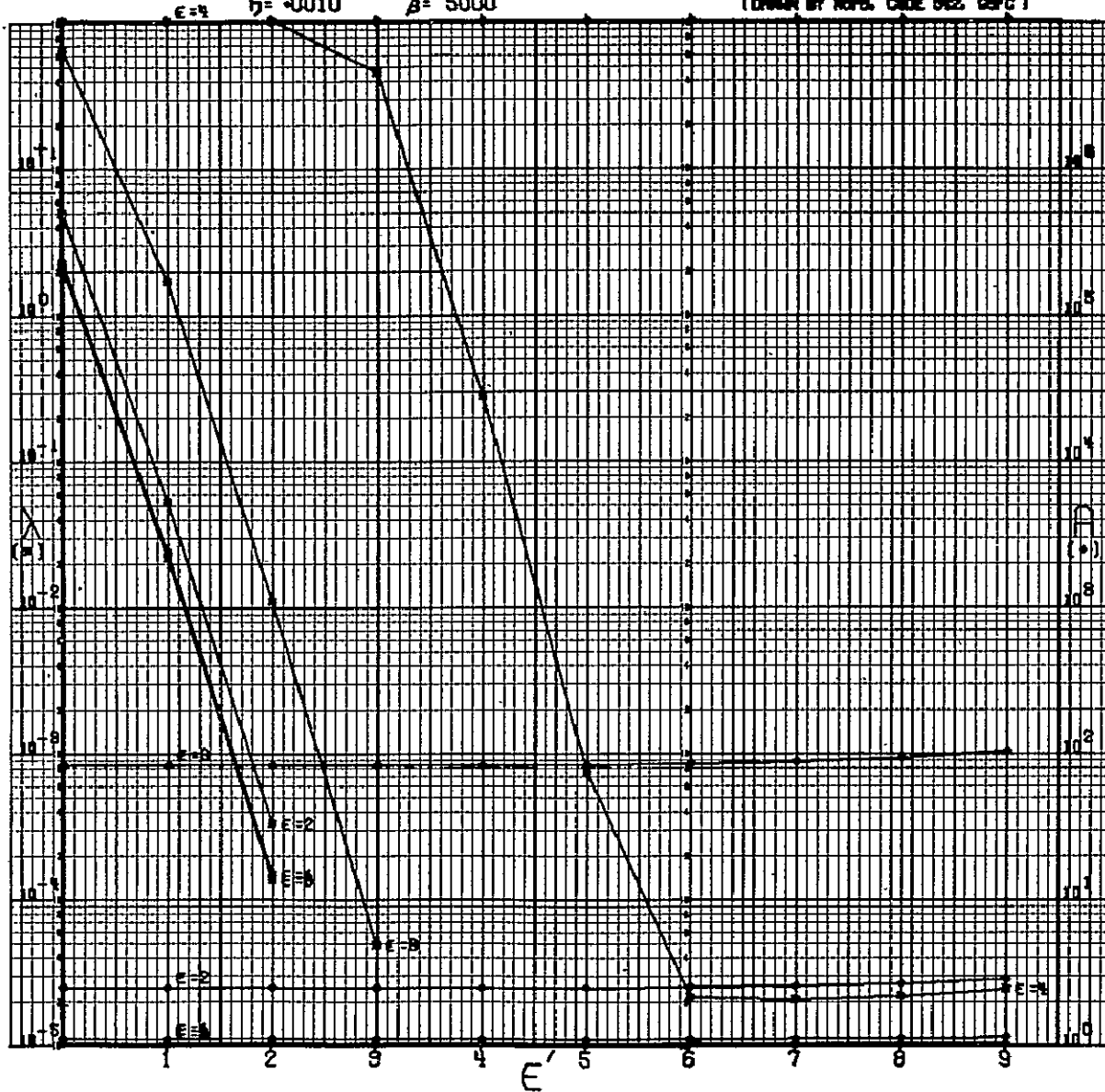
CODE 111013101001011000000

GSFC STANDARD

$\eta = -0010$

$\beta = 5000$

(DRAWN BY ACPL CODE 812 GSFC)



A-460

X

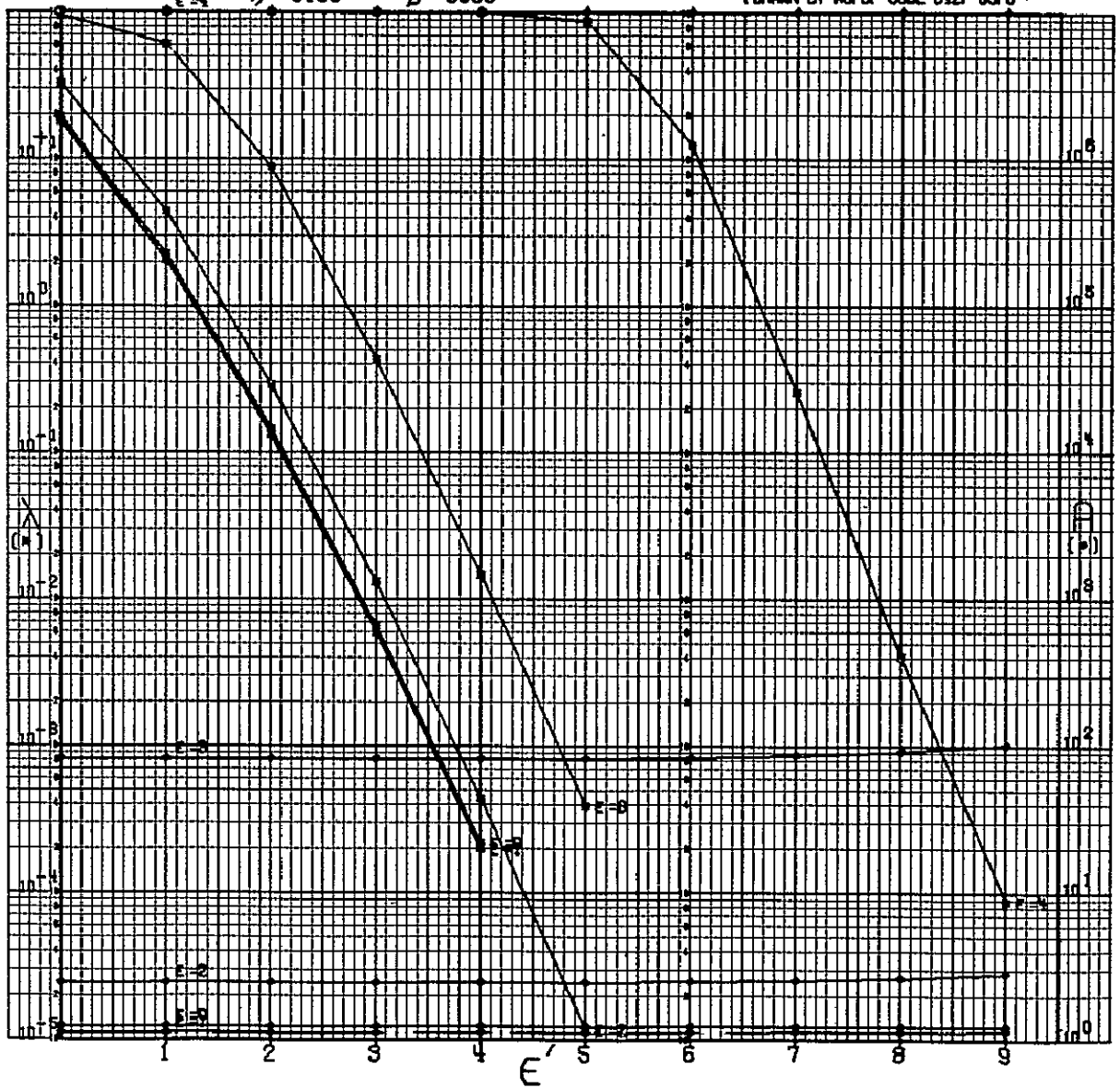
N=21

CODE 11101110100101000000
GSFC STANDARD

$\beta = 5000$

$\beta = 5000$

(DRAWN BY ROPB. CODE 542. GSFC)



N=21

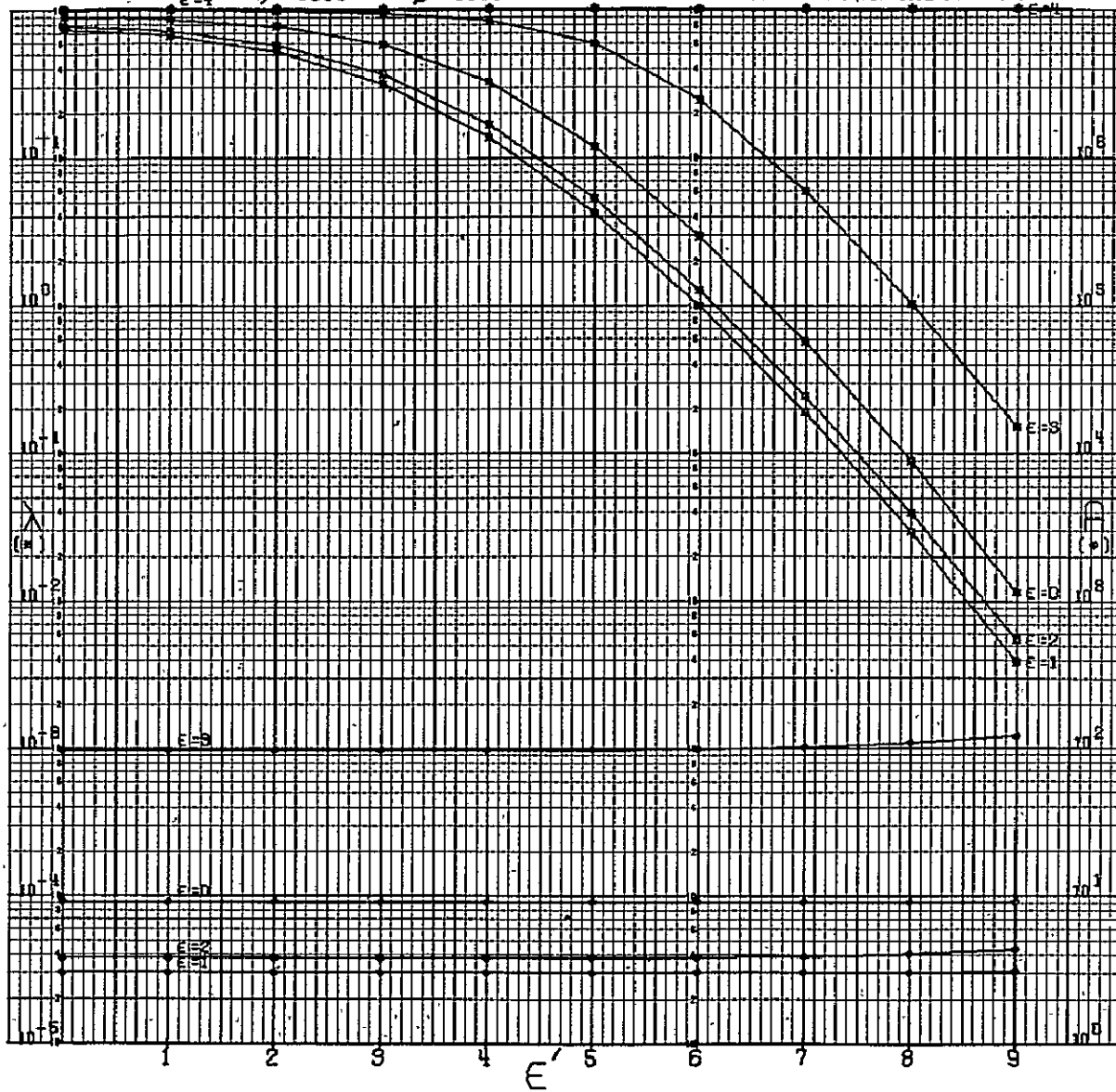
CODE 111011101001000000

GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ACPB, CODE 542, GSFC)



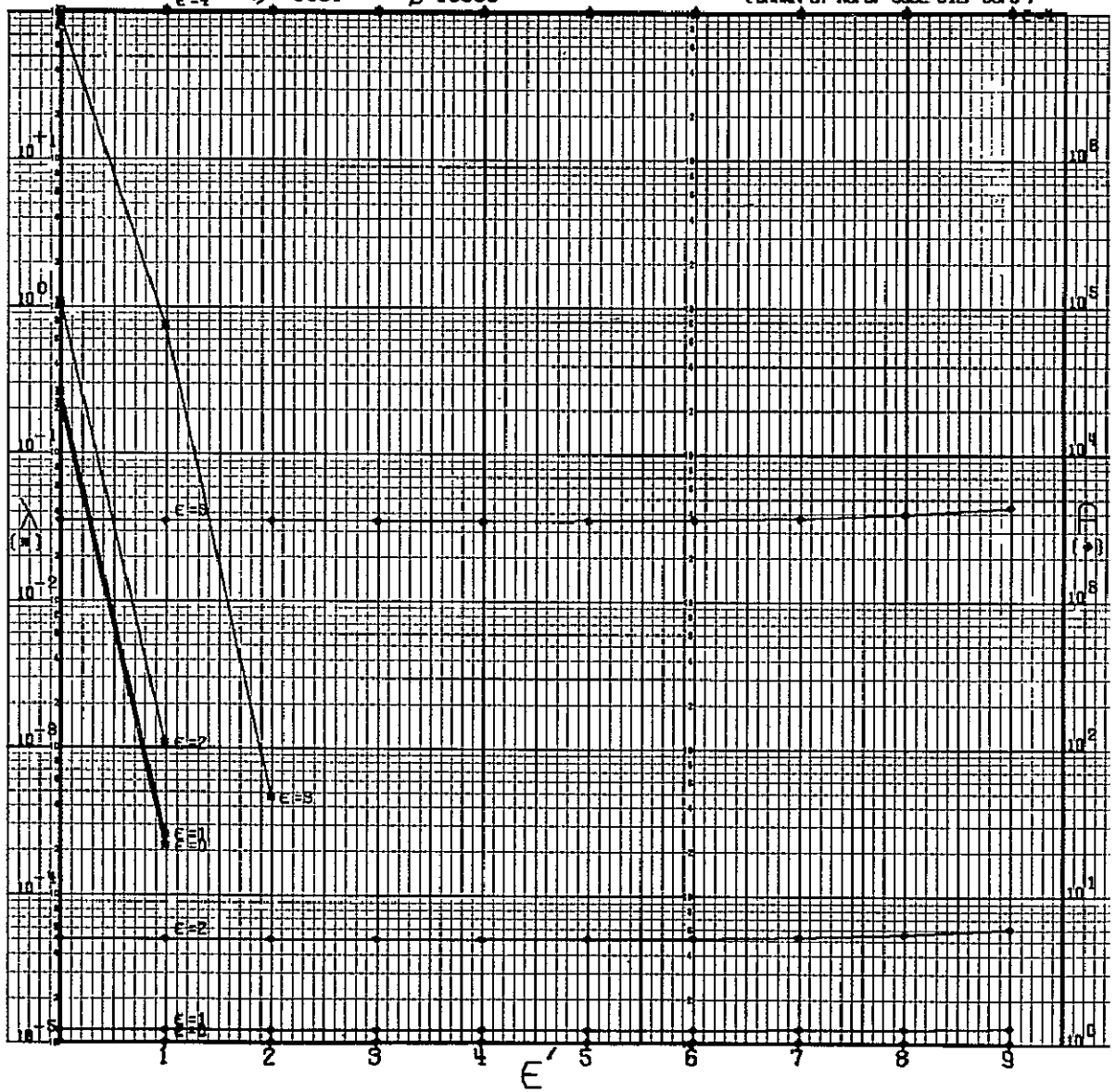
N=21

CODE 111011101001011000000
GSFC STANDARD

$\epsilon = 4$ $\eta = .0001$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=21

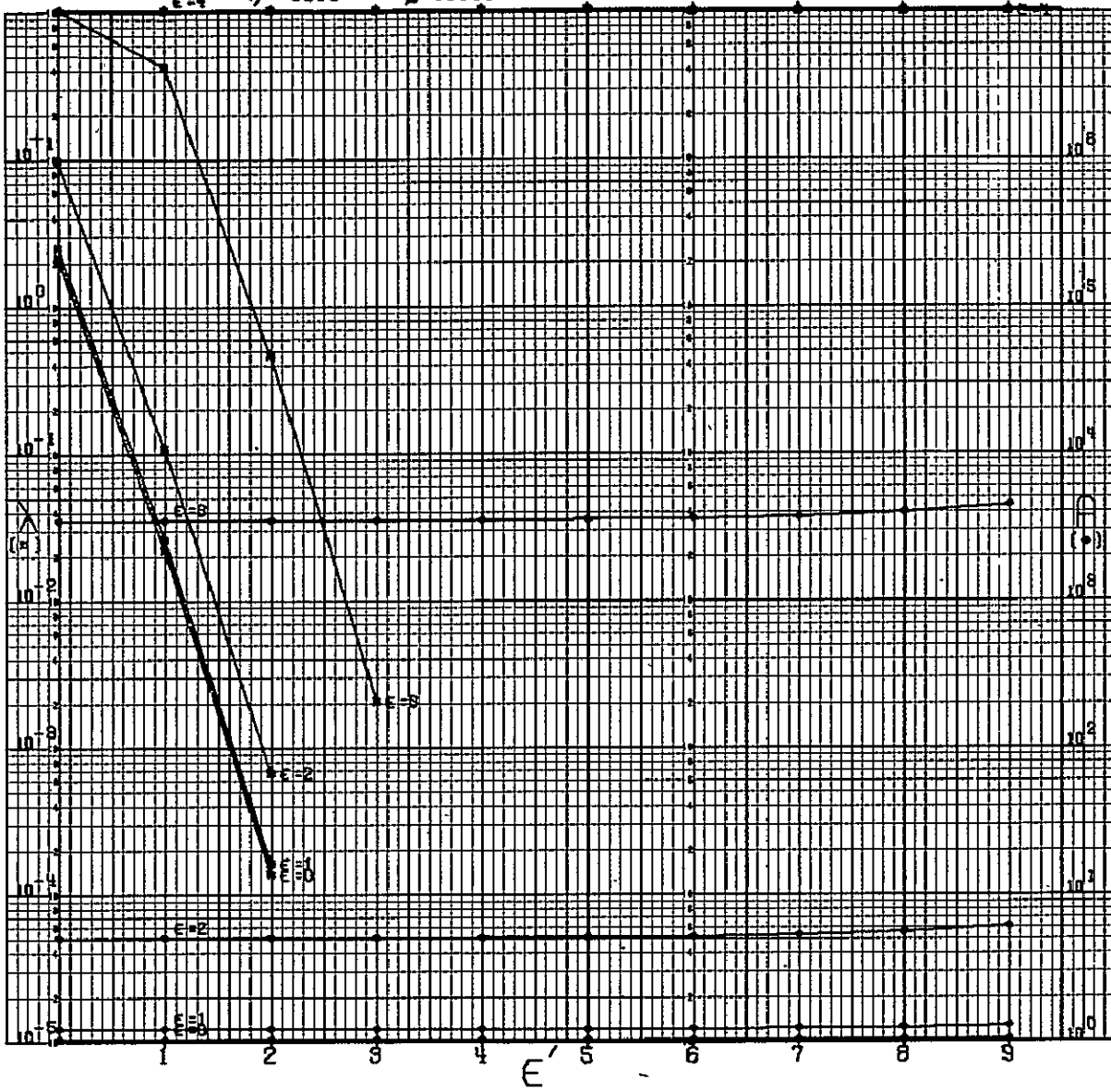
CODE 111011101001011000000

GSFC STANDARD

$\eta = -0010$

$\beta = 10000$

(DRAWN BY ROPS, CODE 532, GSFC)



N=21

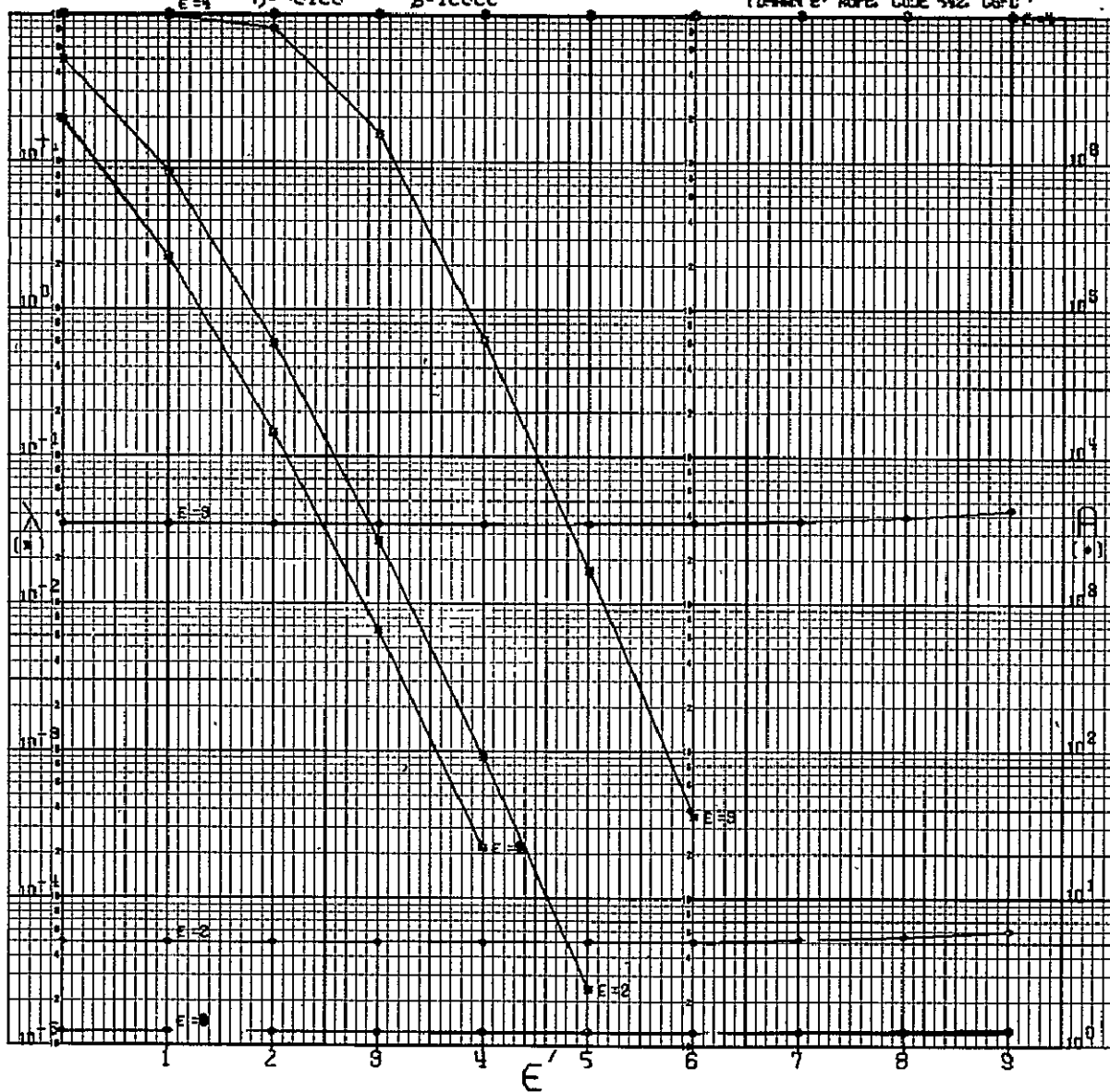
CODE 111011101001011000000

GSFC STANDARD

$\epsilon = 4$ $\eta = 0.100$

$\beta = 10000$

(DRAWN BY ROPEL CODE 512 GSFC)



A-465

N=21

CODE 111011101001011000000

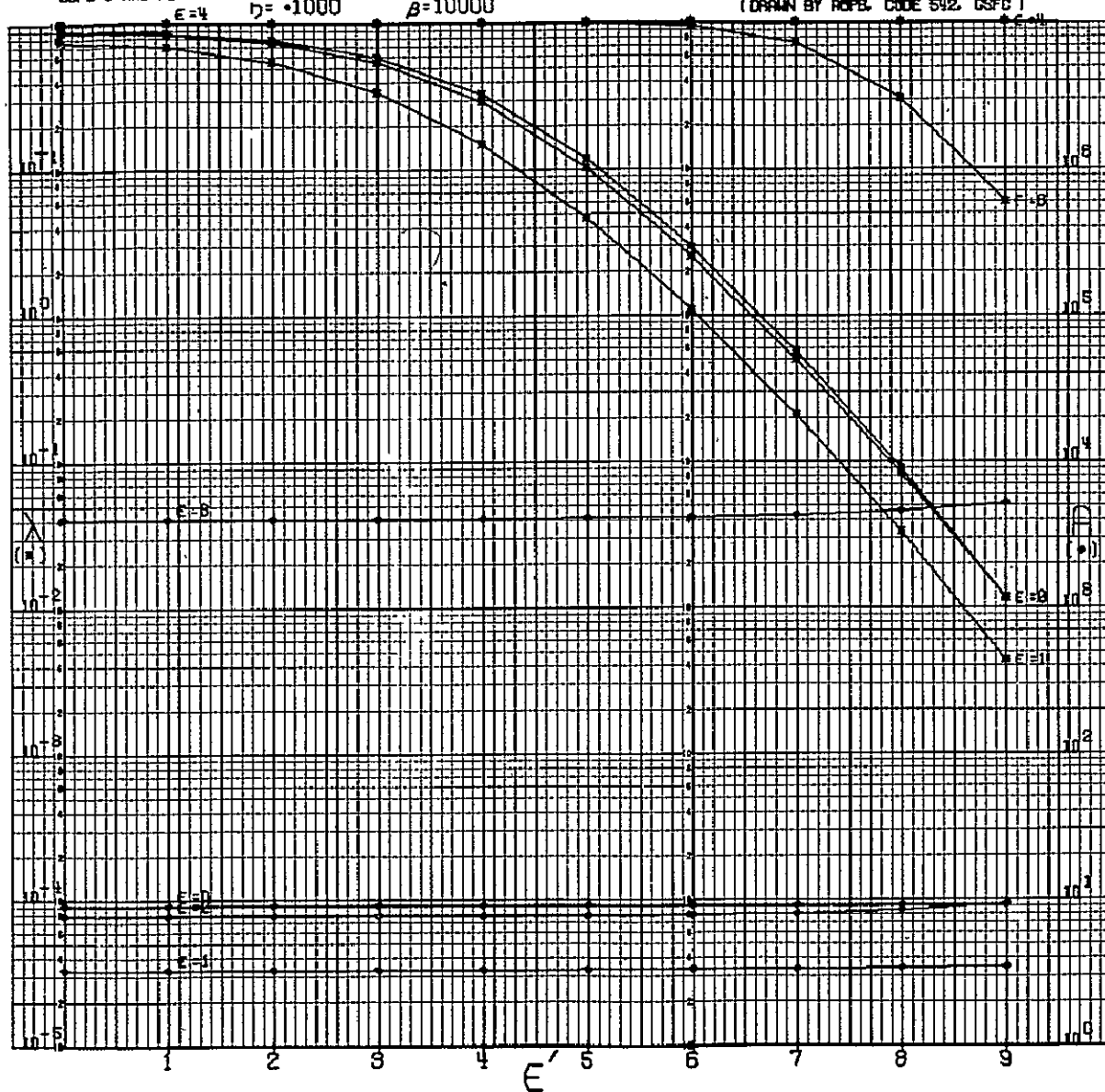
GSFC STANDARD

$\epsilon=4$

$\eta=1000$

$\beta=10000$

(DRAWN BY ACPBL CODE 542, GSFC)



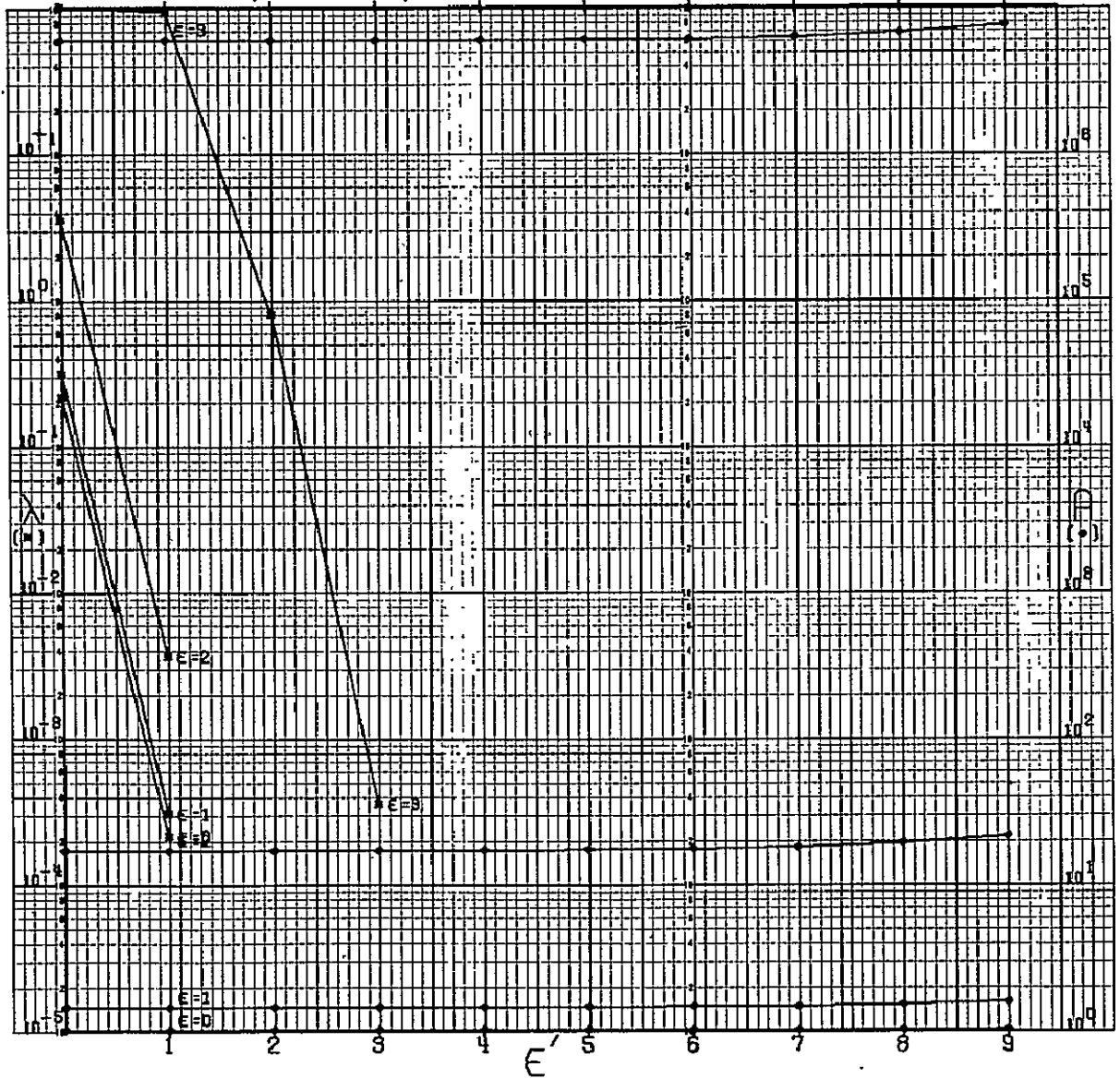
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = .0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



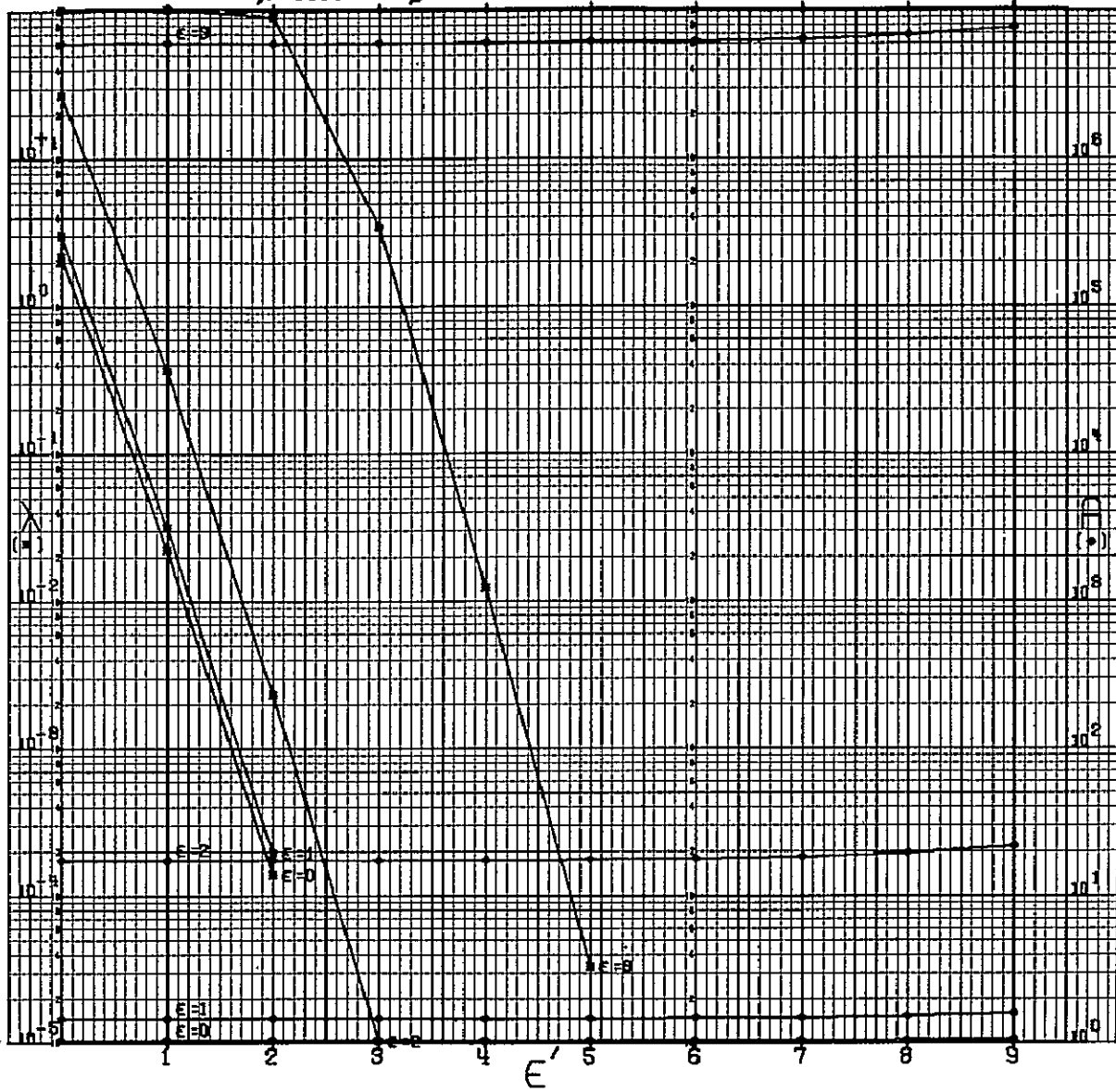
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = +0010$

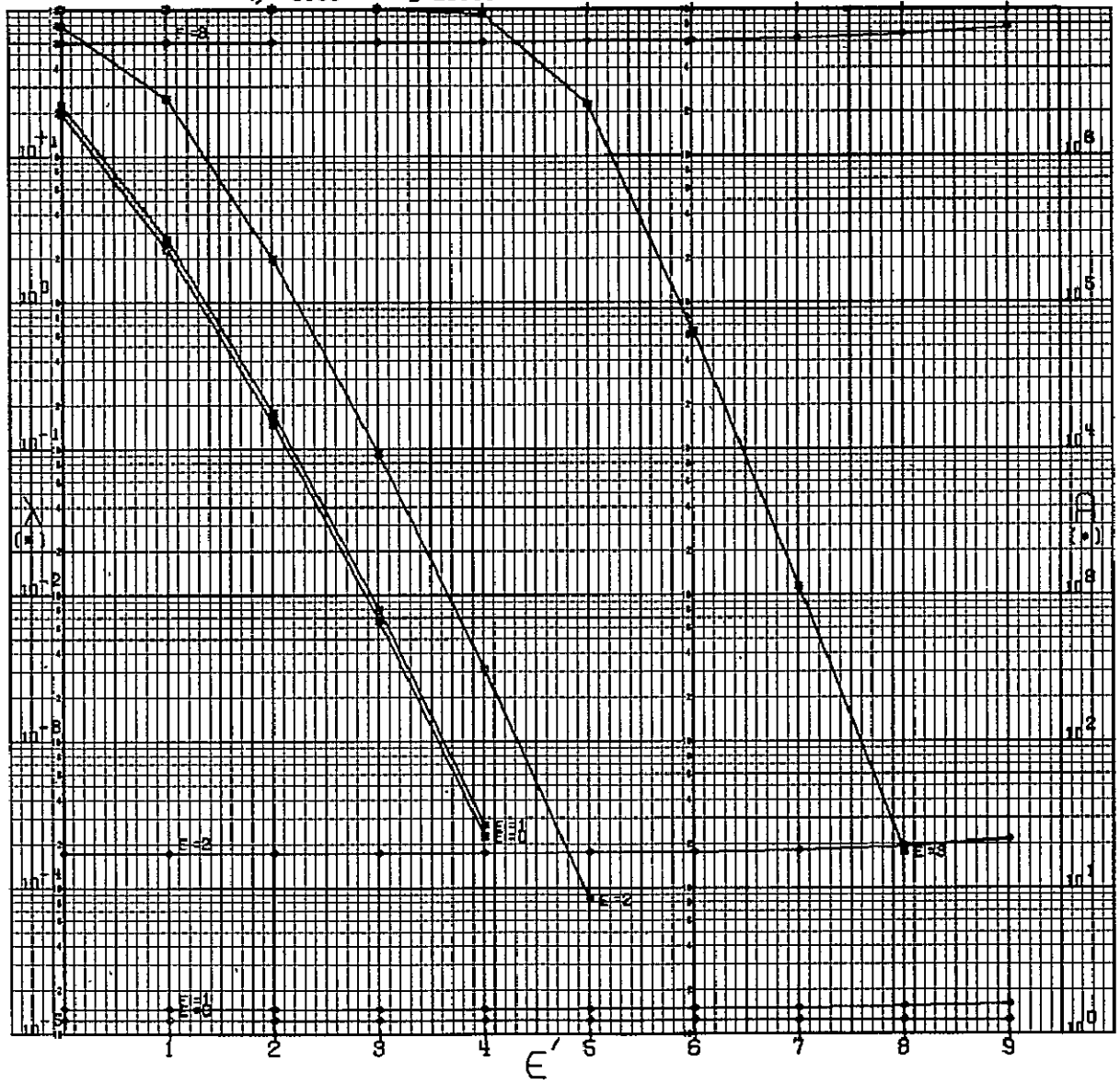
$\beta = 20000$

(DRAWN BY ROPS, CODE 592, GSFC)



A-468

N=21 CSOE 11101101001011000000
 GSFC STANDARD $\eta = -0100$ $\beta = 20000$ (DRAWN BY AOMP, CSOE 512, GSFC)



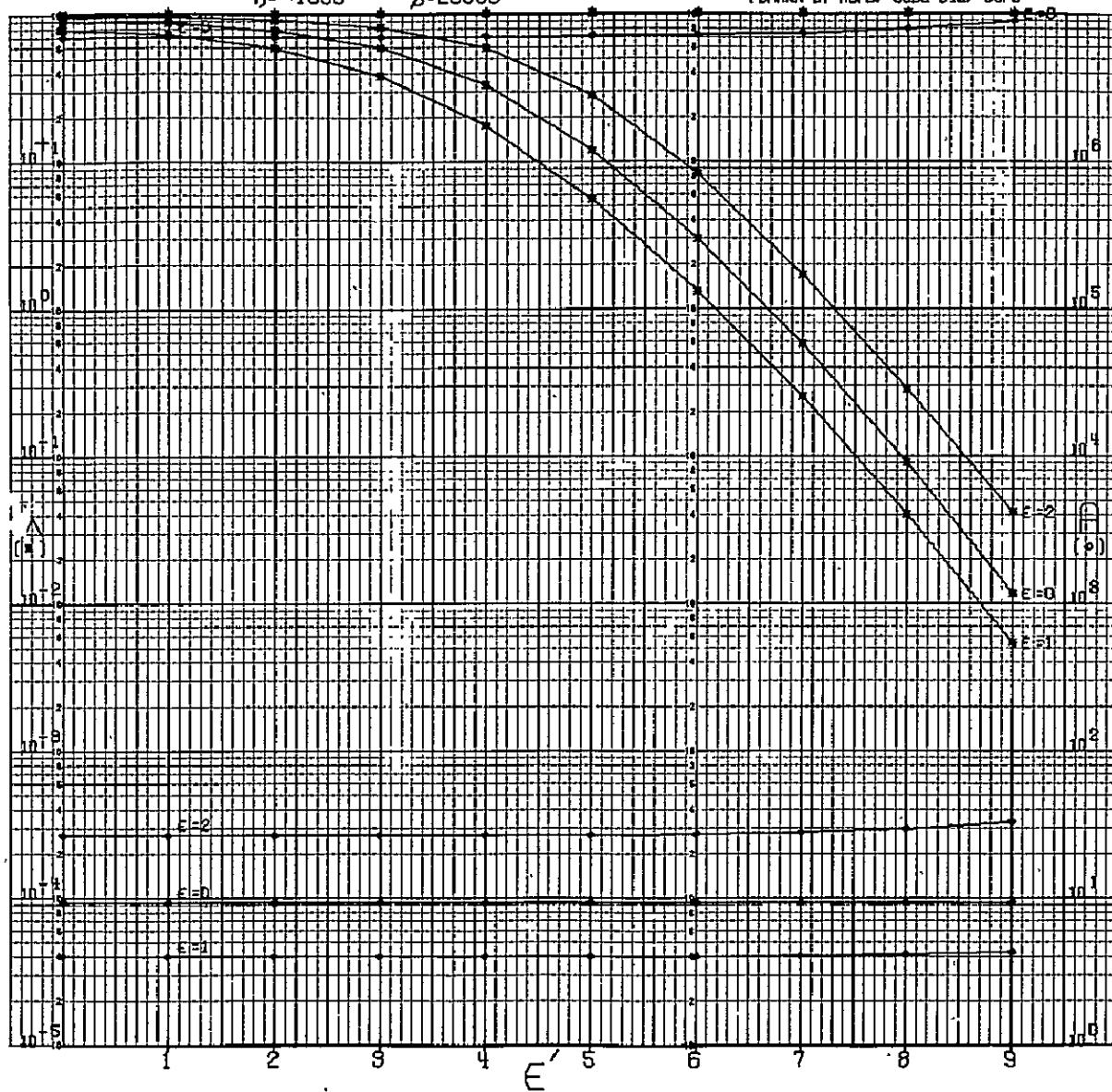
N=21

CODE 111011101001011000000
GSFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY RCPB, CODE 542, GSFC)



$$N = 22$$

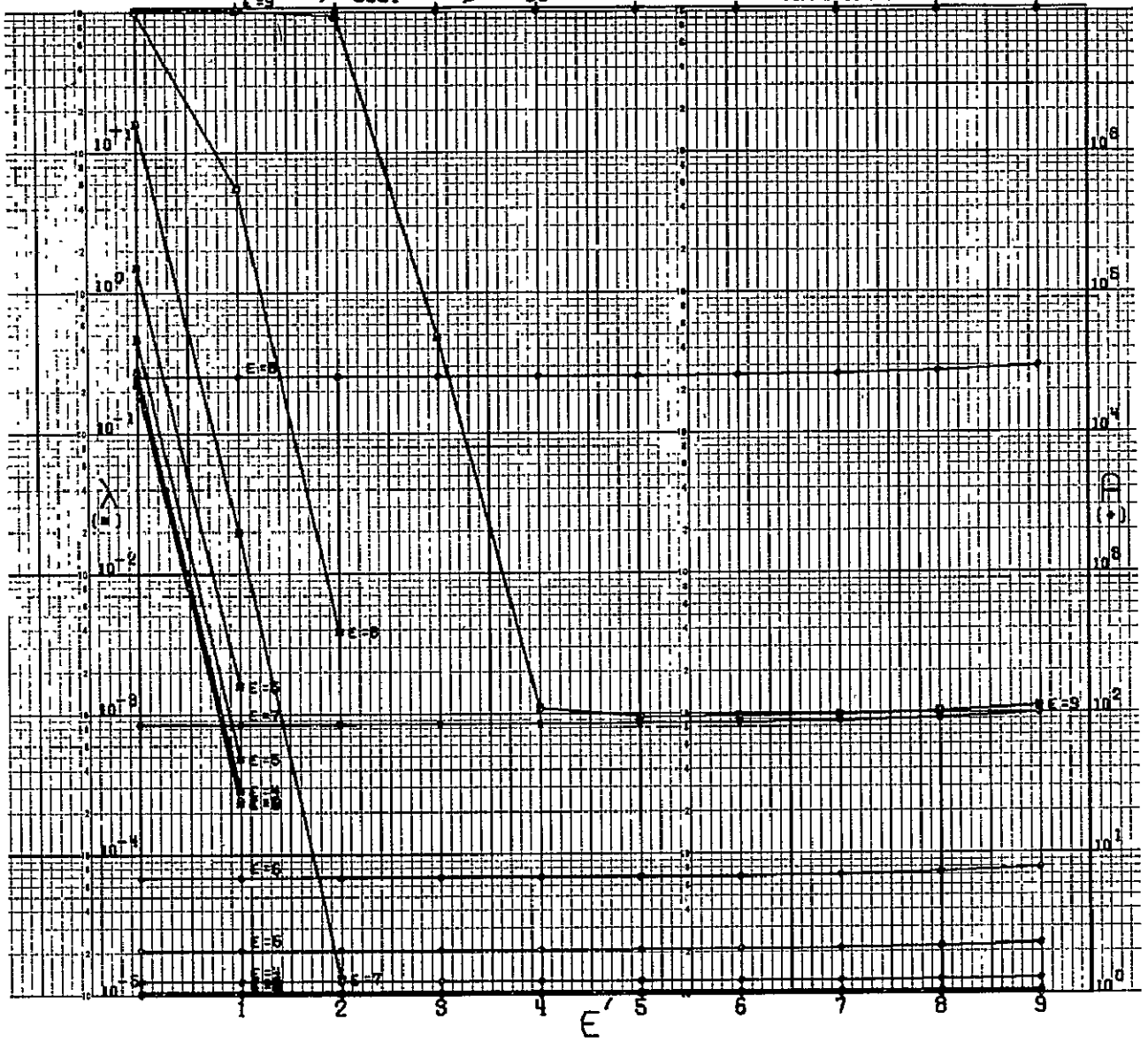
N=22

CODE 1111001101101010000000
GSGC STANDARD

$\eta = 0.001$

$\beta = 50$

1 DRAWN BY ADPCL CODE 512, GSGC 1



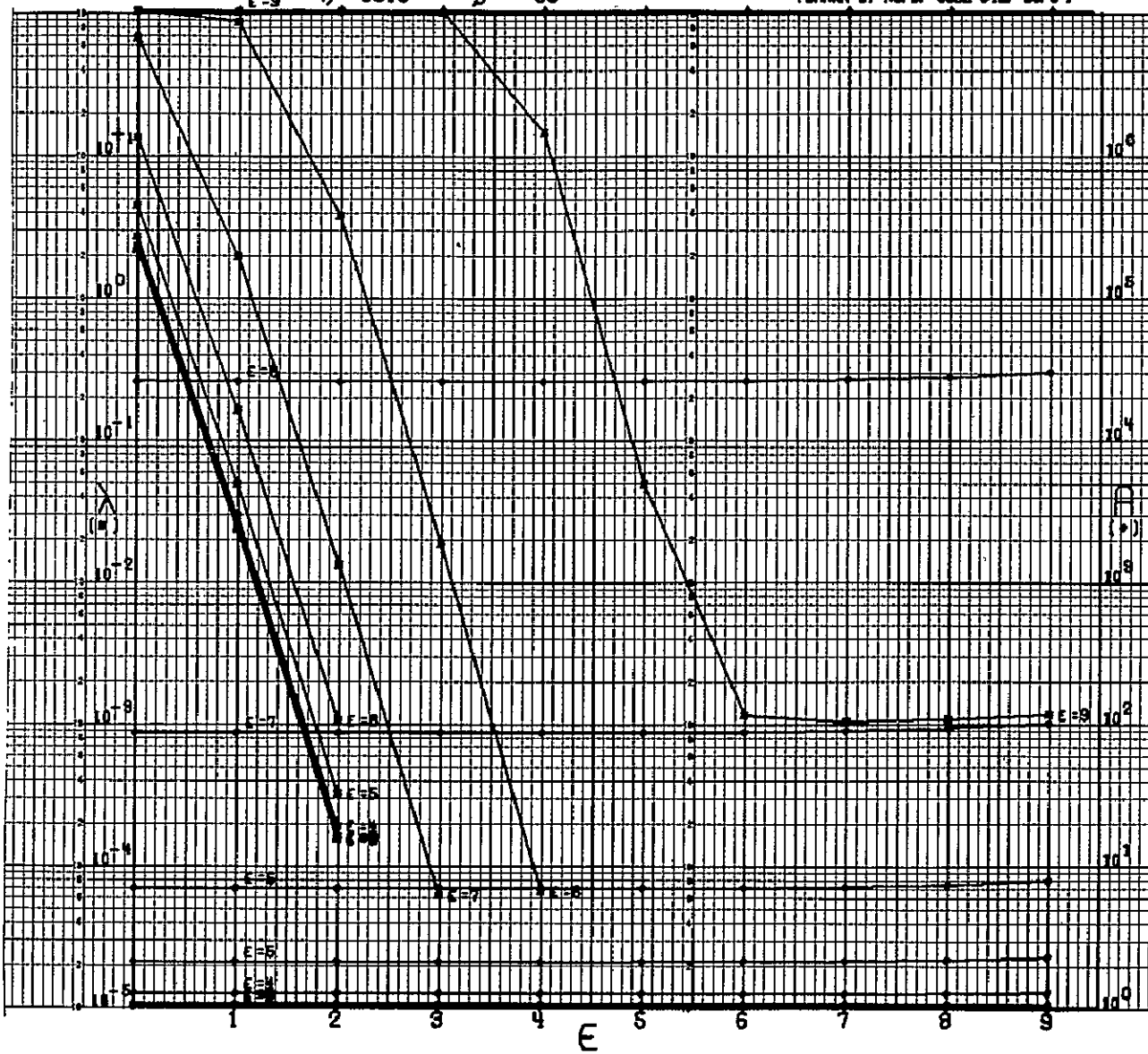
N=22

CODE 1111001101101010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY RSPB. CODE 542. GSFC)



N=22

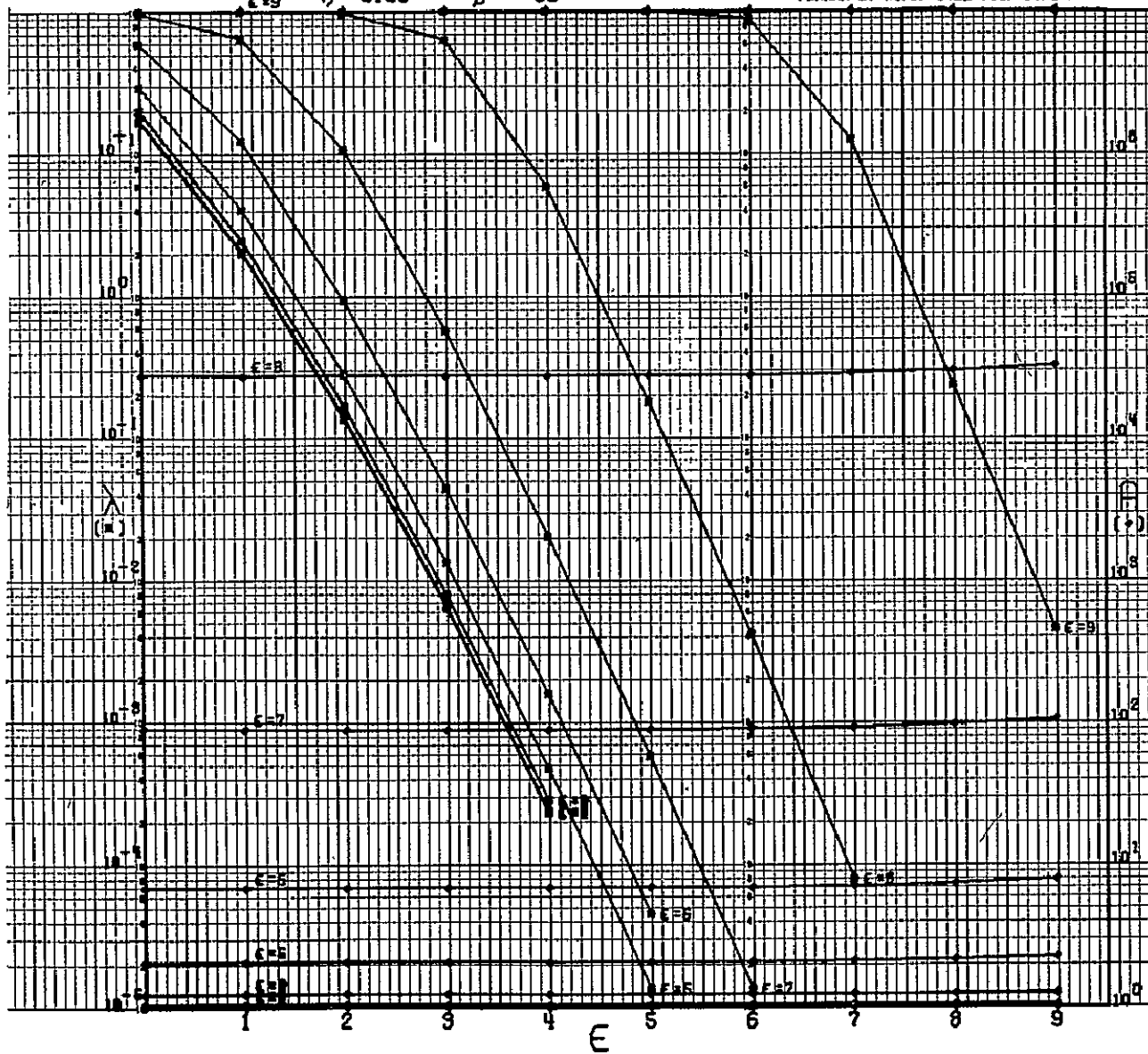
CODE 1111001301103010000000

G6FC STANDARD

$\eta = 0.100$

$\beta = 50$

(DRAWN BY ROPL CODE 542, G6FC)



N = 22

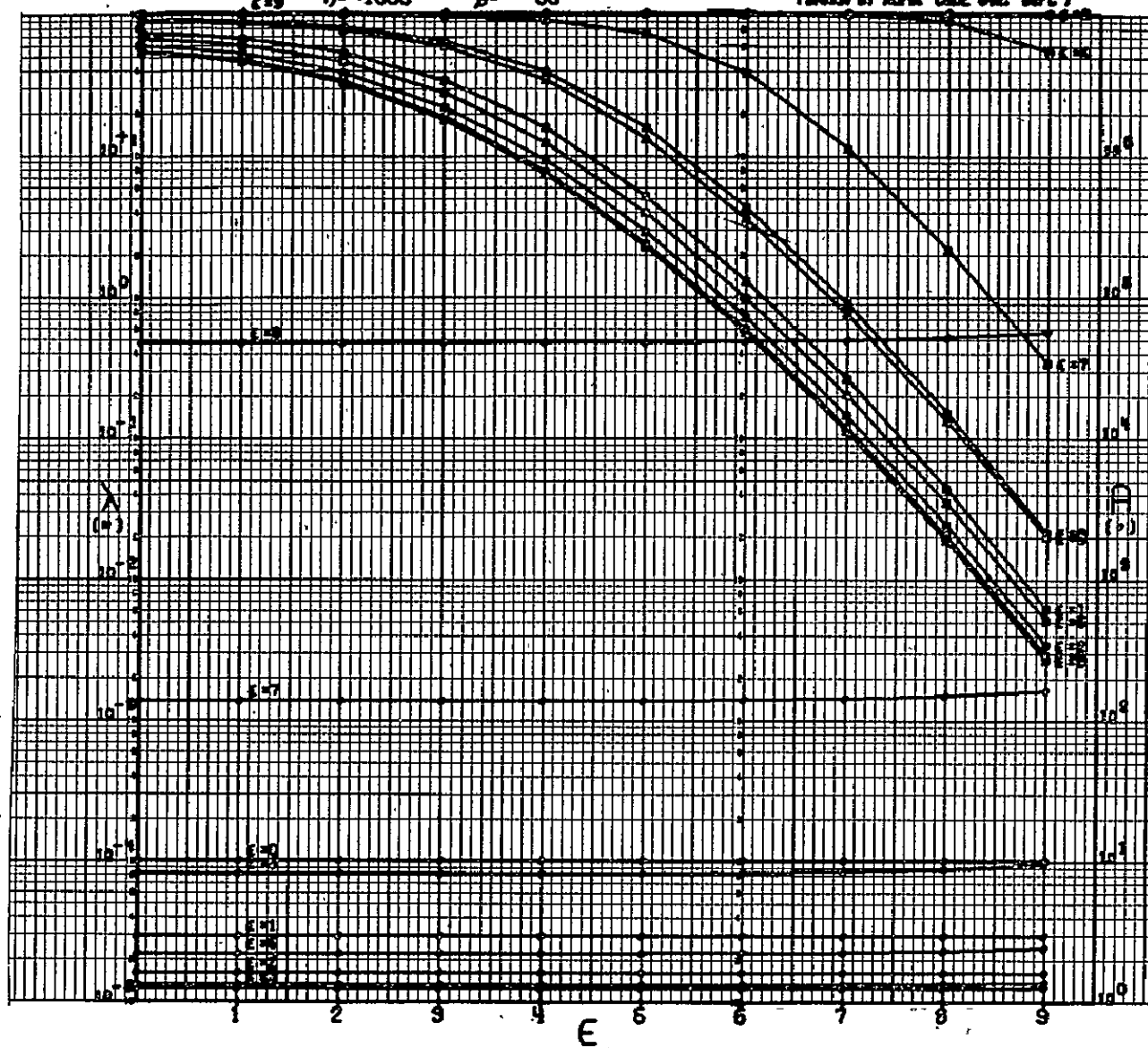
CRC 1111001101101010000000

CRC STANDARD

$c=9$ $h=1000$

$\beta=50$

DESIGN BY NCP. CRC. INC. MFC



N=22

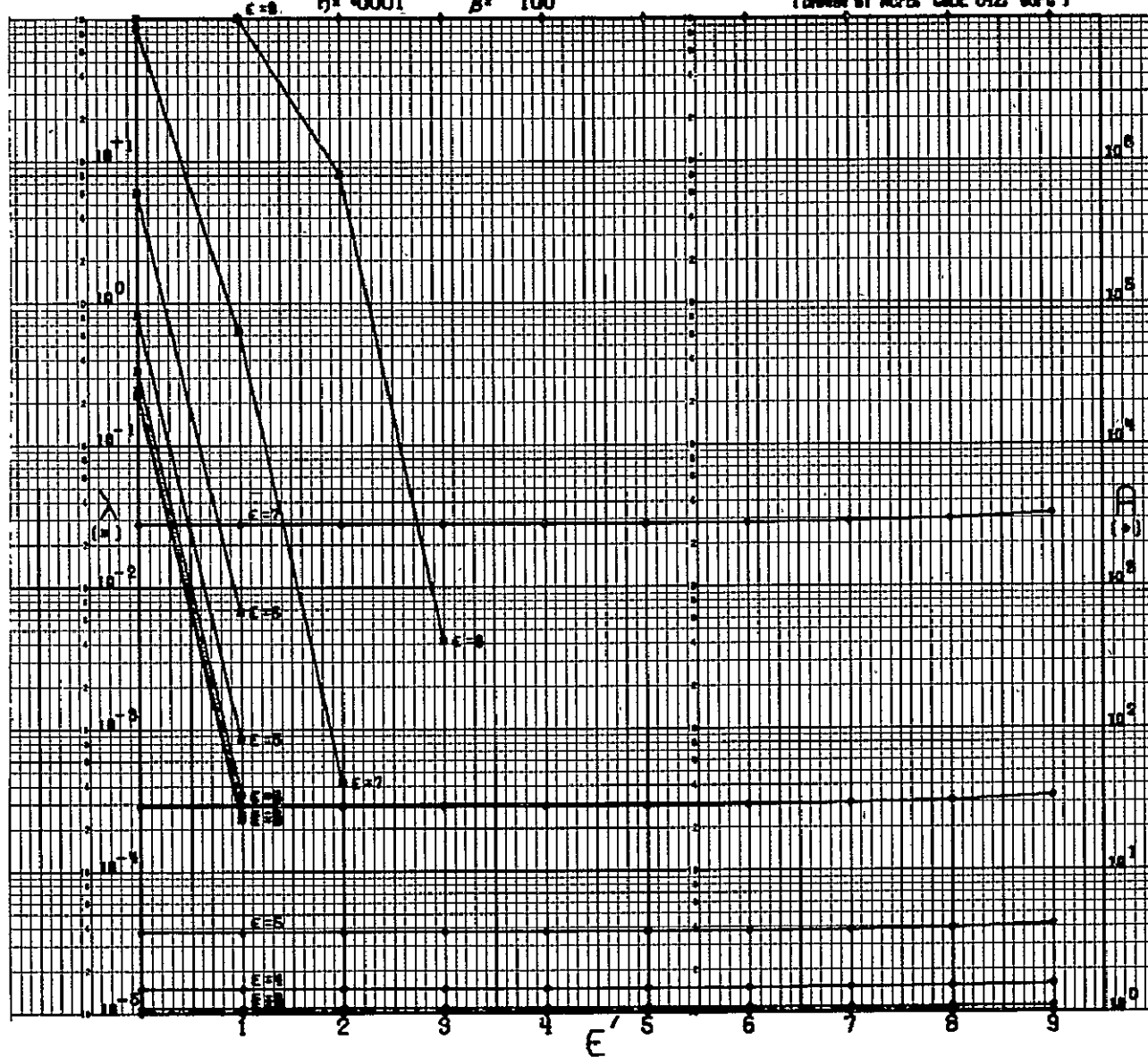
CODE 1111001101101010000000

GOFC STANDARD

$\eta = 0.001$

$\beta = 100$

(DRAWN BY ACTG, CODE 592, GOFC)



N = 22

CODE 1111001101101010000000

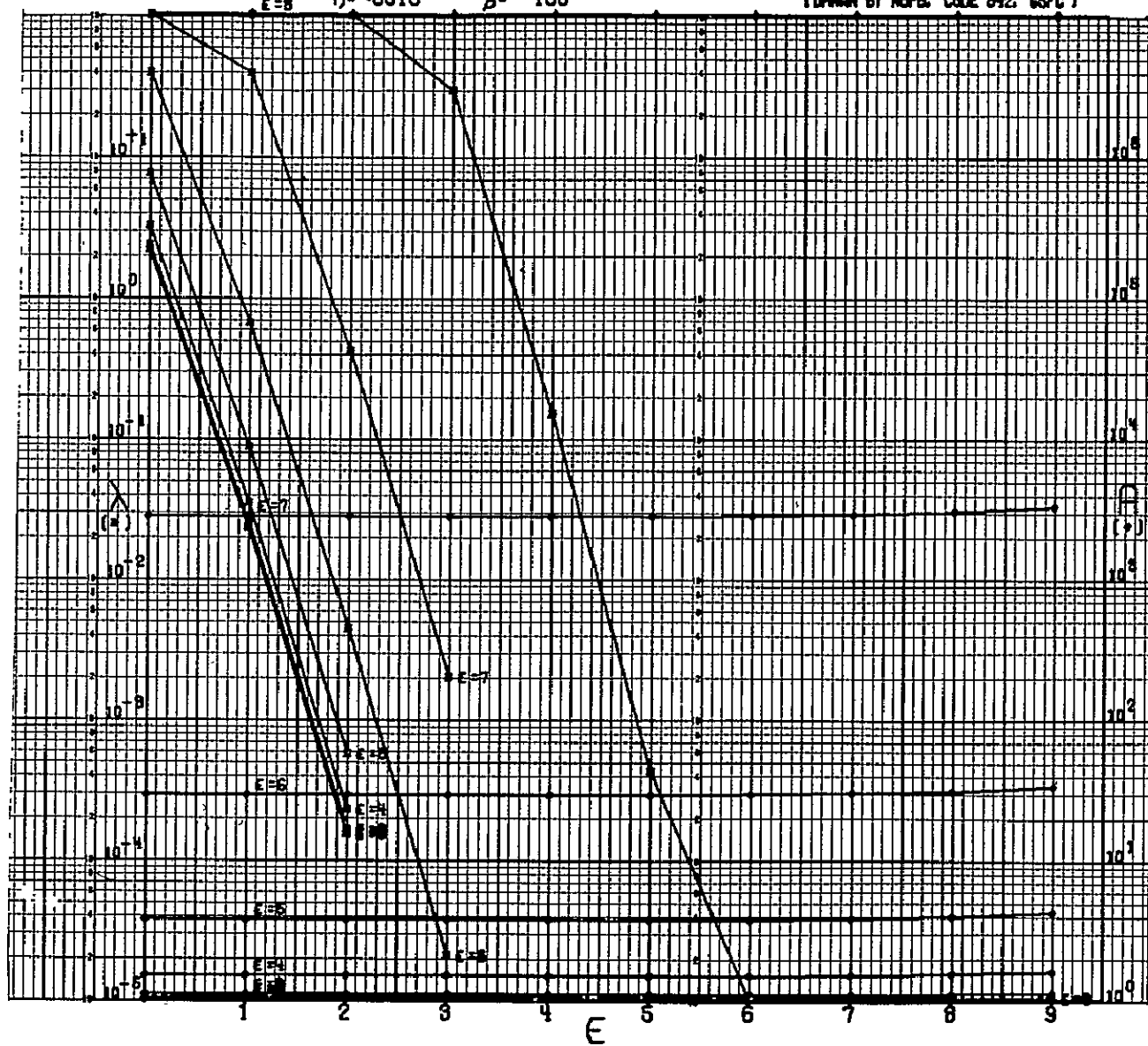
SDFC STANDARD

$\epsilon = 8$

$\eta = .0010$

$\beta = 100$

(DRAWN BY ROPEL CODE 592, 66FC)



N=22

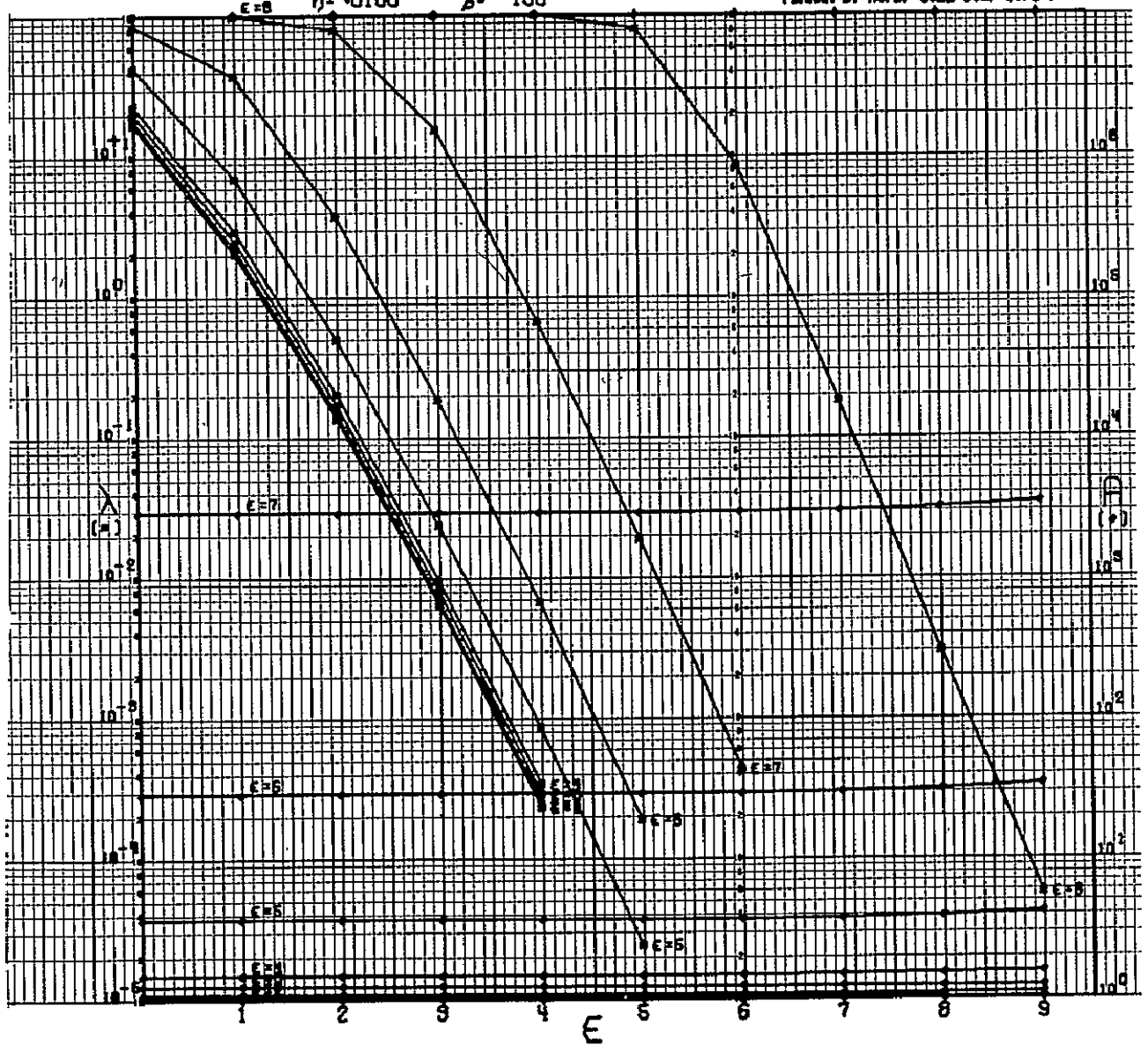
CODE 111100110101010000000

GEFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY AOPS. CODE 642, GFC)



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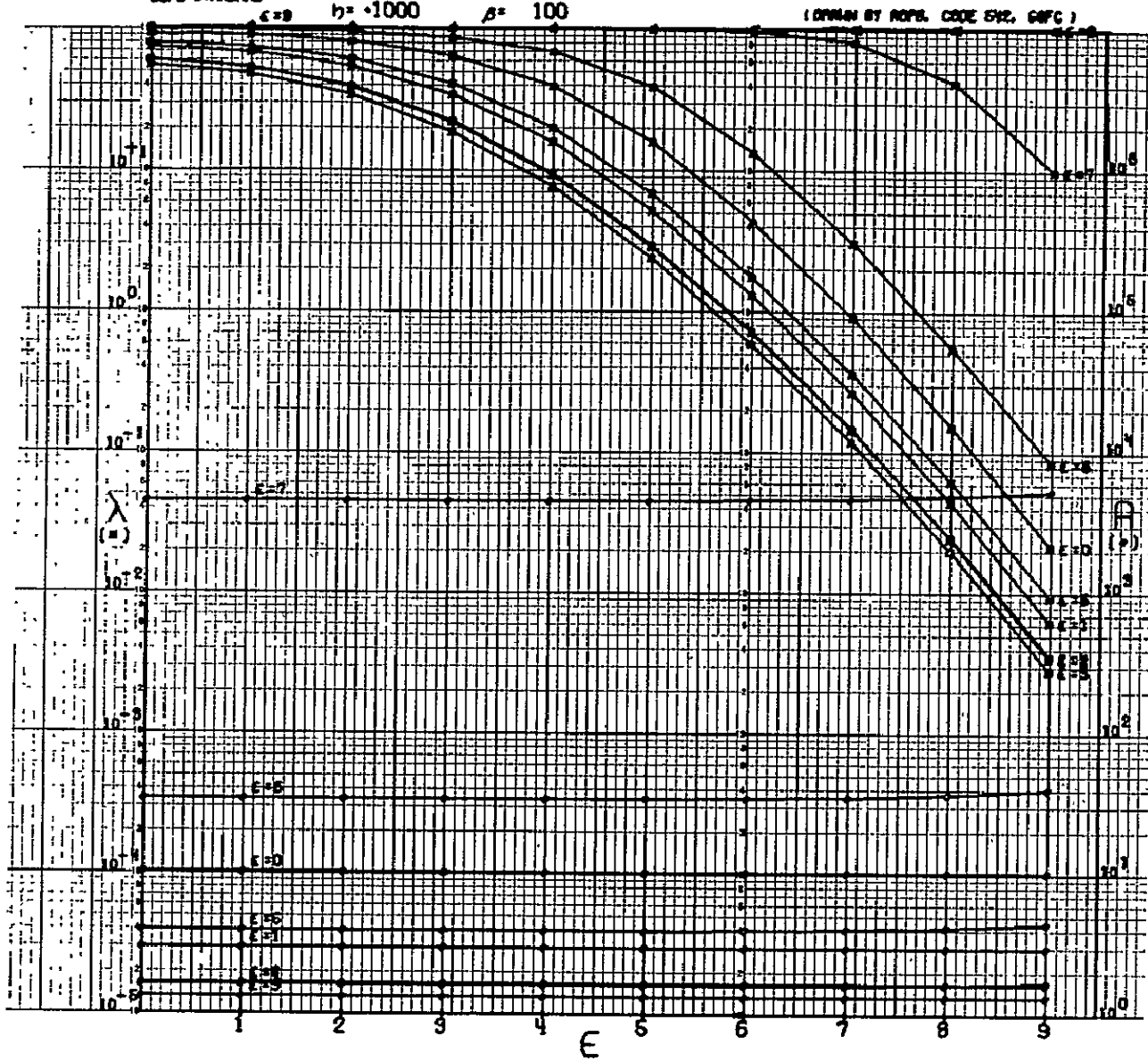
N=22

CODE 11110011011010000000
GDFC STANDARD

$h = 1000$

$\beta = 100$

(OBTAIN BY APP. CODE 542, GDFC)



N=22

CODE 1111001101101010000000

SAFC STANDARD

$\epsilon = 8$ $\eta = .0001$

$\beta = 200$

(INFORM BY ROMS, CODE 092, G3FC)



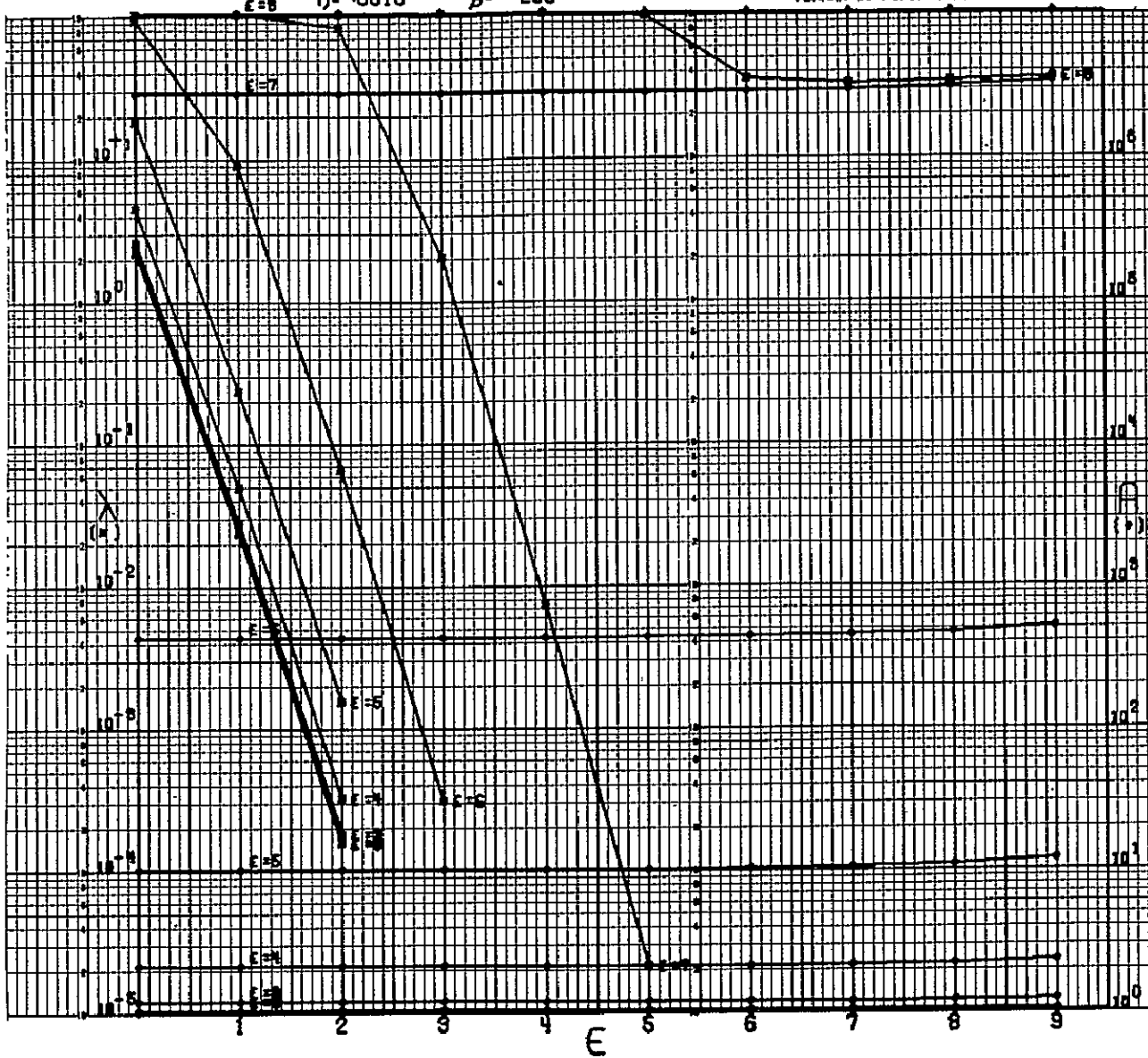
CODE 1111001101101010000000

GSFC STANDARD

U
E=8 7= 0010

$$\beta = 200$$

(DRAWN BY AOPS. CODE 542. GSFC)



N= 22

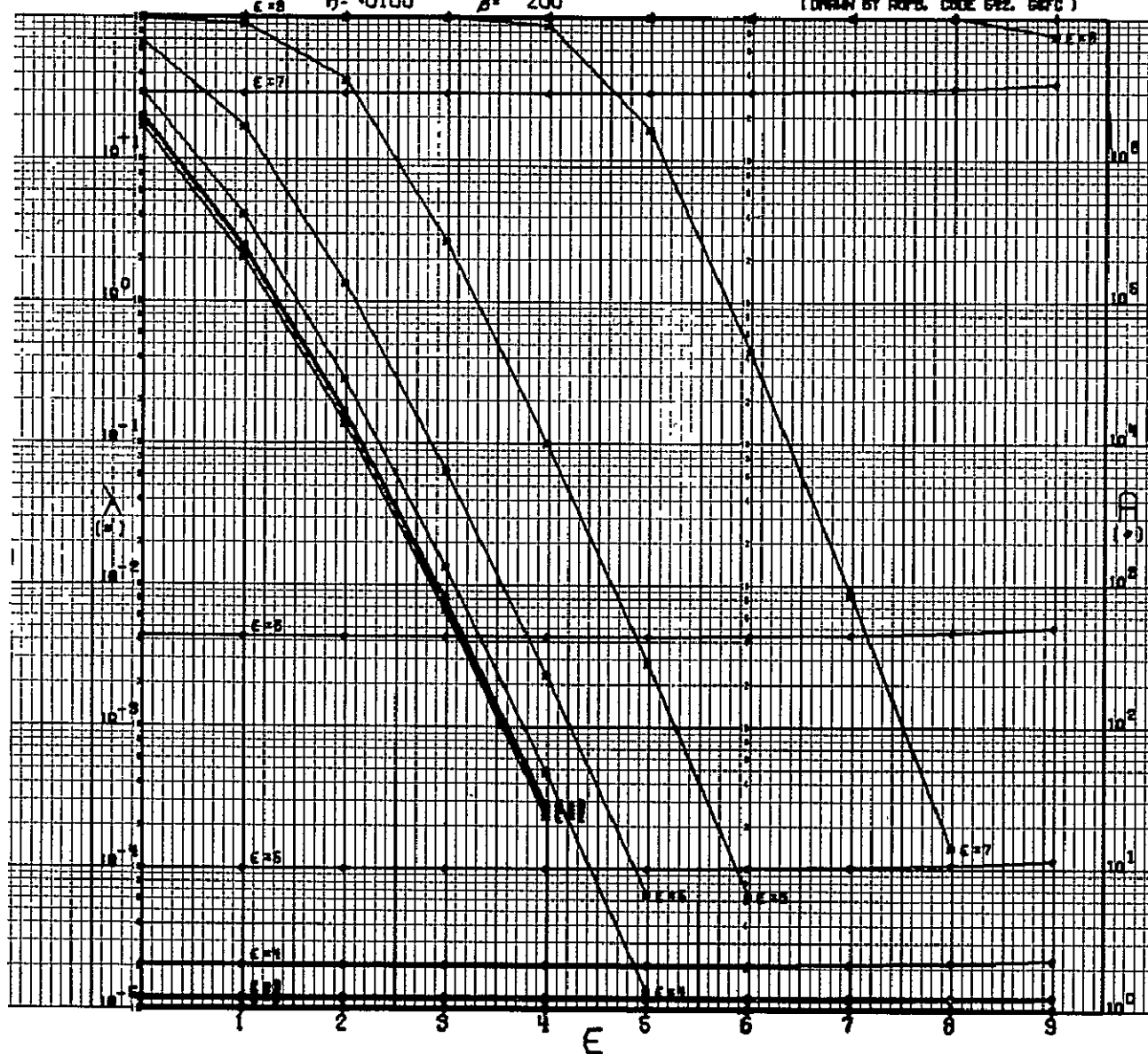
CODE 1111001101101010000000

GFIC STANDARD

$\eta = 0100$

$\beta = 200$

(DRAWN BY ROPS. CODE 612. GFIC)



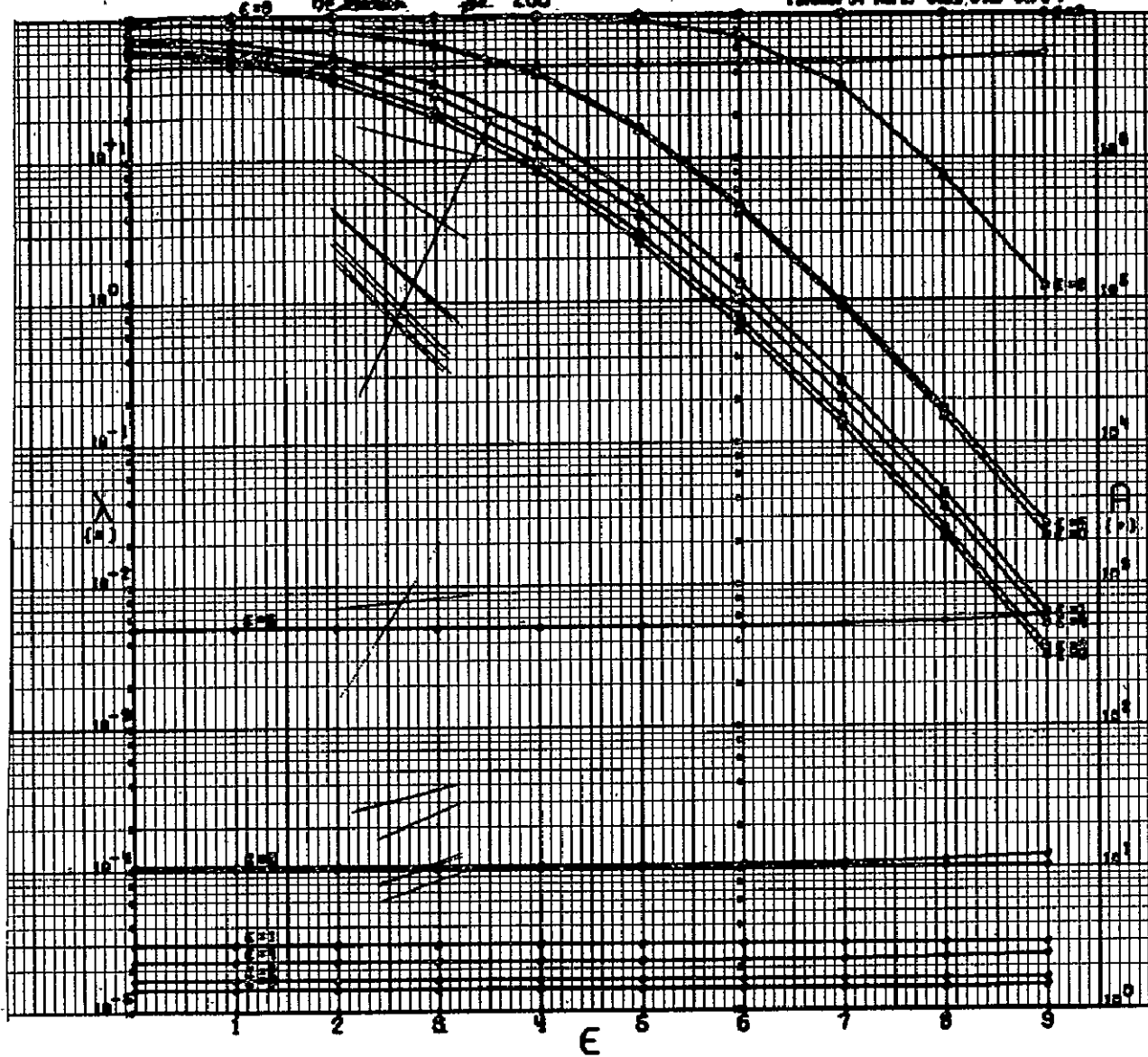
N° 22

ORGE 1111000101009026060000
ORGE 07000000

by 20000

200

(ORANGE OF REFE. ORGE, ORGE, ORGE)



N = 22

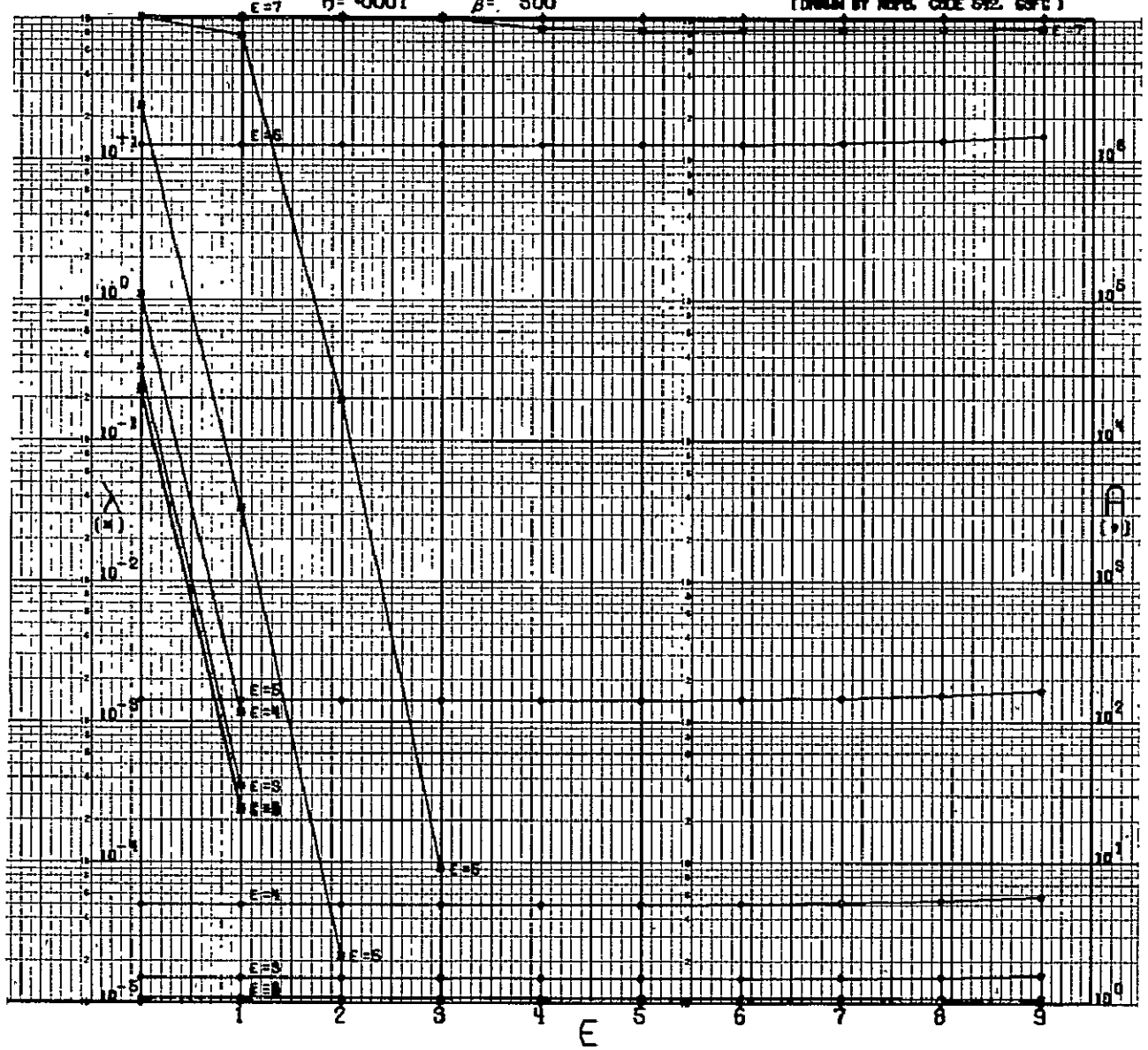
CODE 1112001101101010000000

GSFC STANDARD

$b = -0001$

$\beta = 500$

(DRAWN BY NRPB, CODE 592, GSFC)



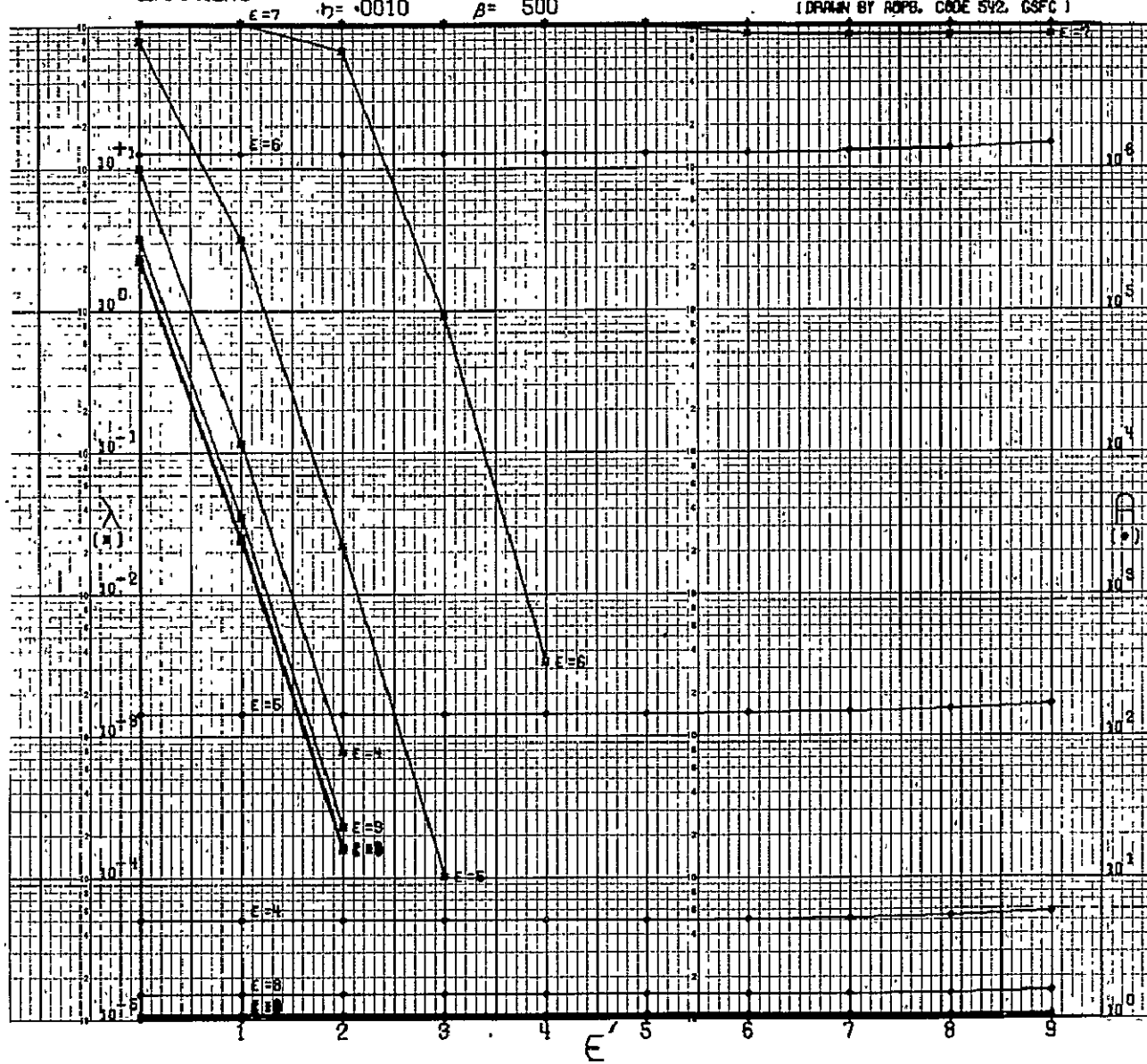
N=22

CODE 1111001101101010000000
GSFC STANDARD

$\epsilon = 7$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROPB. CODE SV2. GSFC)



N=22

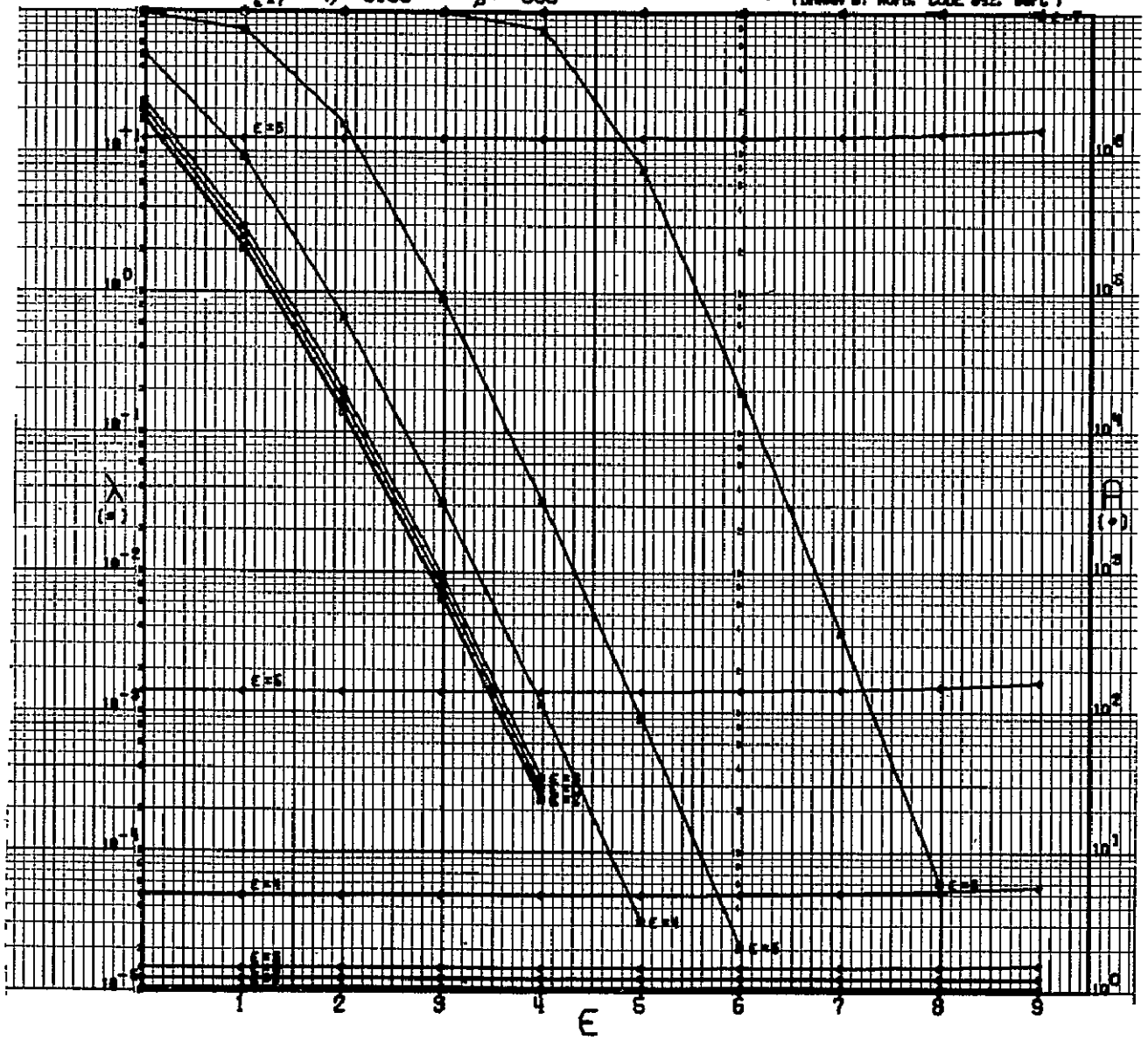
CODE 1111001101101010000000

GRFC STANDARD

$\epsilon = 7$ $h = -0100$

$\beta = 500$

(DRAWN BY NOPS, CODE 512, GRFC)



N=22

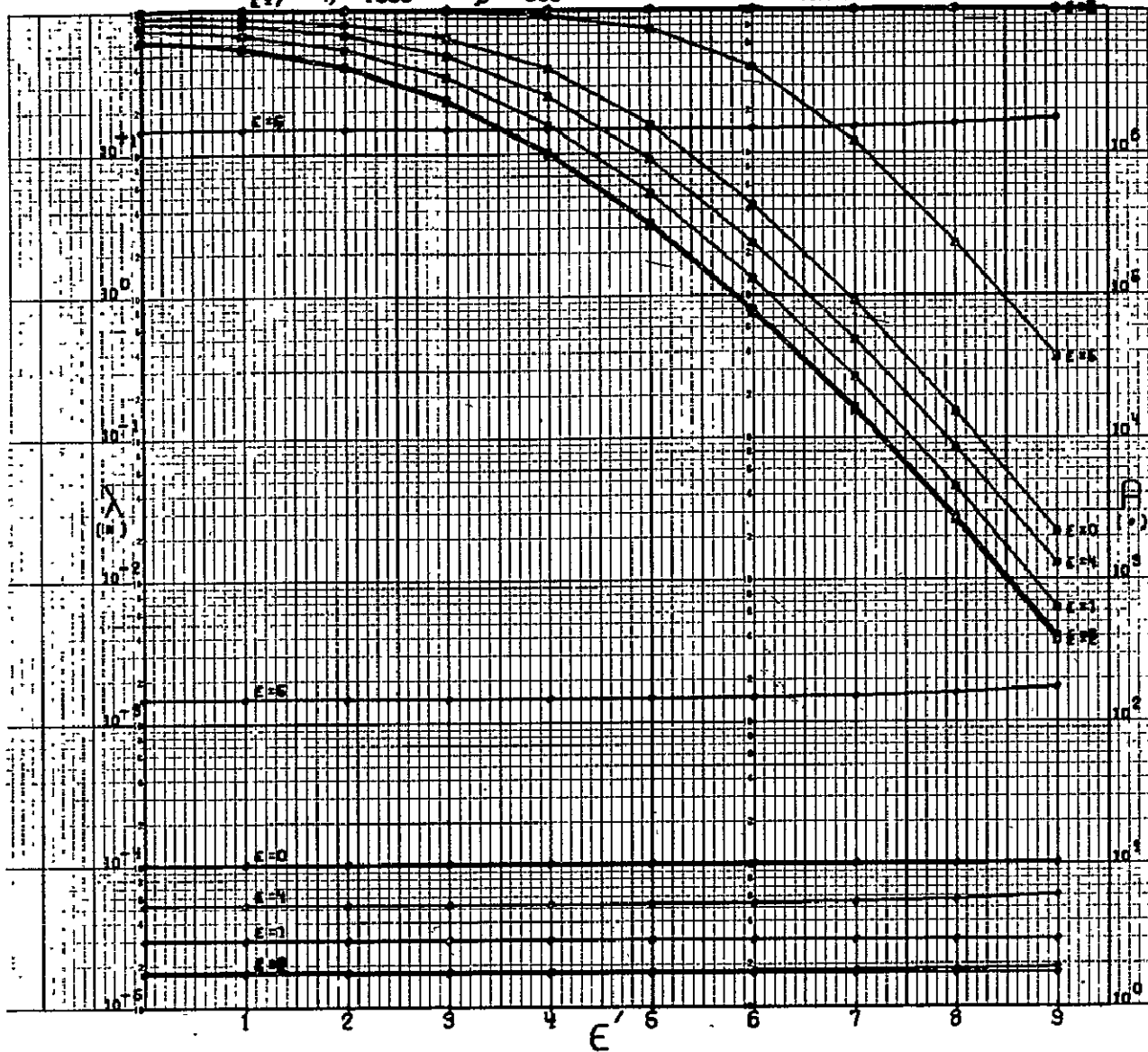
CODE 1111001101101010000000

GEFC STANDARD

$h = 1000$

$\beta = 500$

(DRAWN BY NOPS, CODE 592, GEFC)



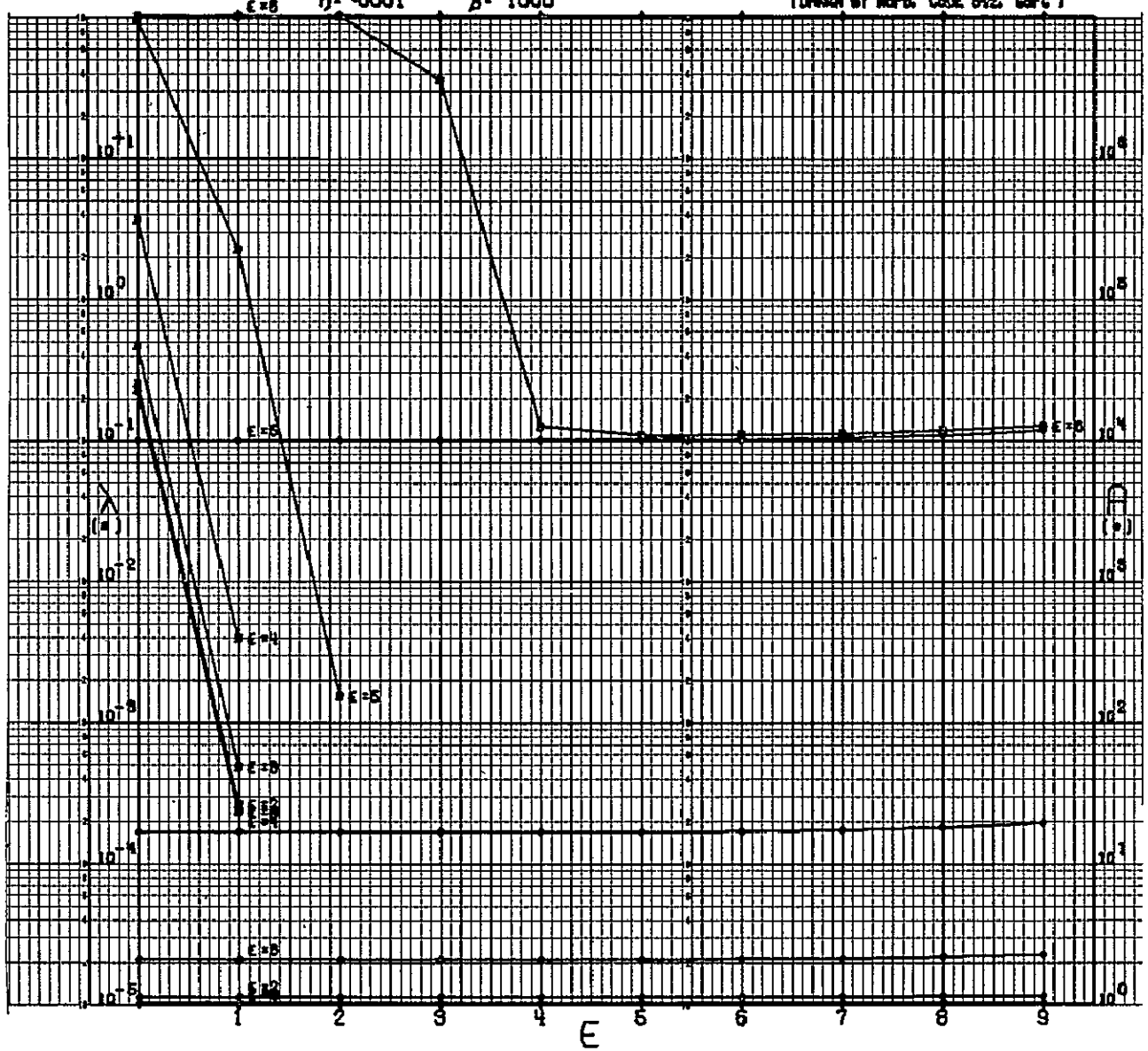
N=22

CODE 1111001101101010000000
GPGC STANDARD

$\eta = -0001$

$\beta = 1000$

(DRAWN BY NCPD CODE 592 GPGC)



N=22

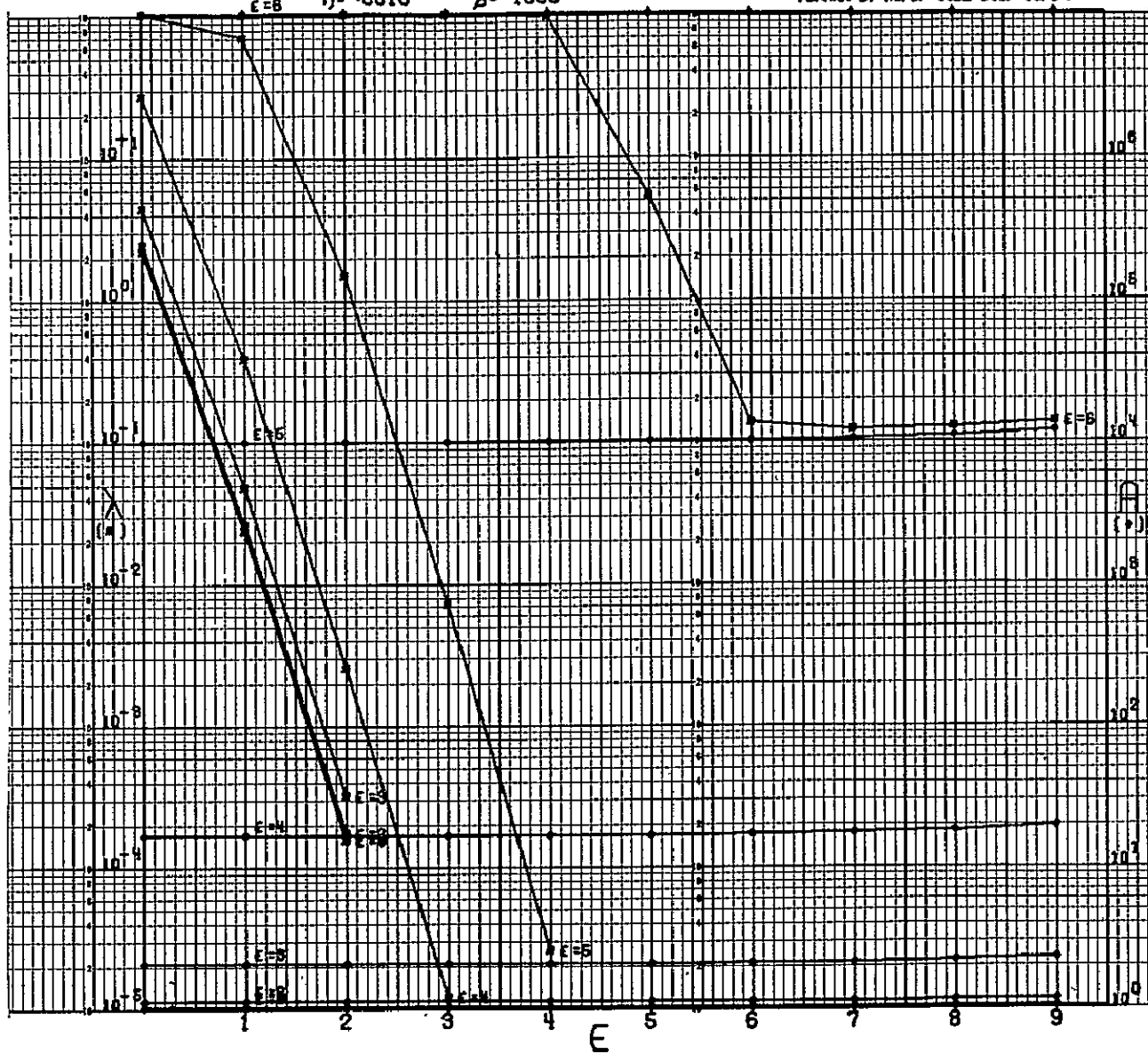
CODE 1111001101101010000000

GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY NCPG, CODE 542, GSFC)



N=22

CODE 1111001101101010000000

667C STANDARD

$\eta = 0.100$

$\beta = 1000$

(DRAWN BY MRS. CODE 572, 667C)



N° 22

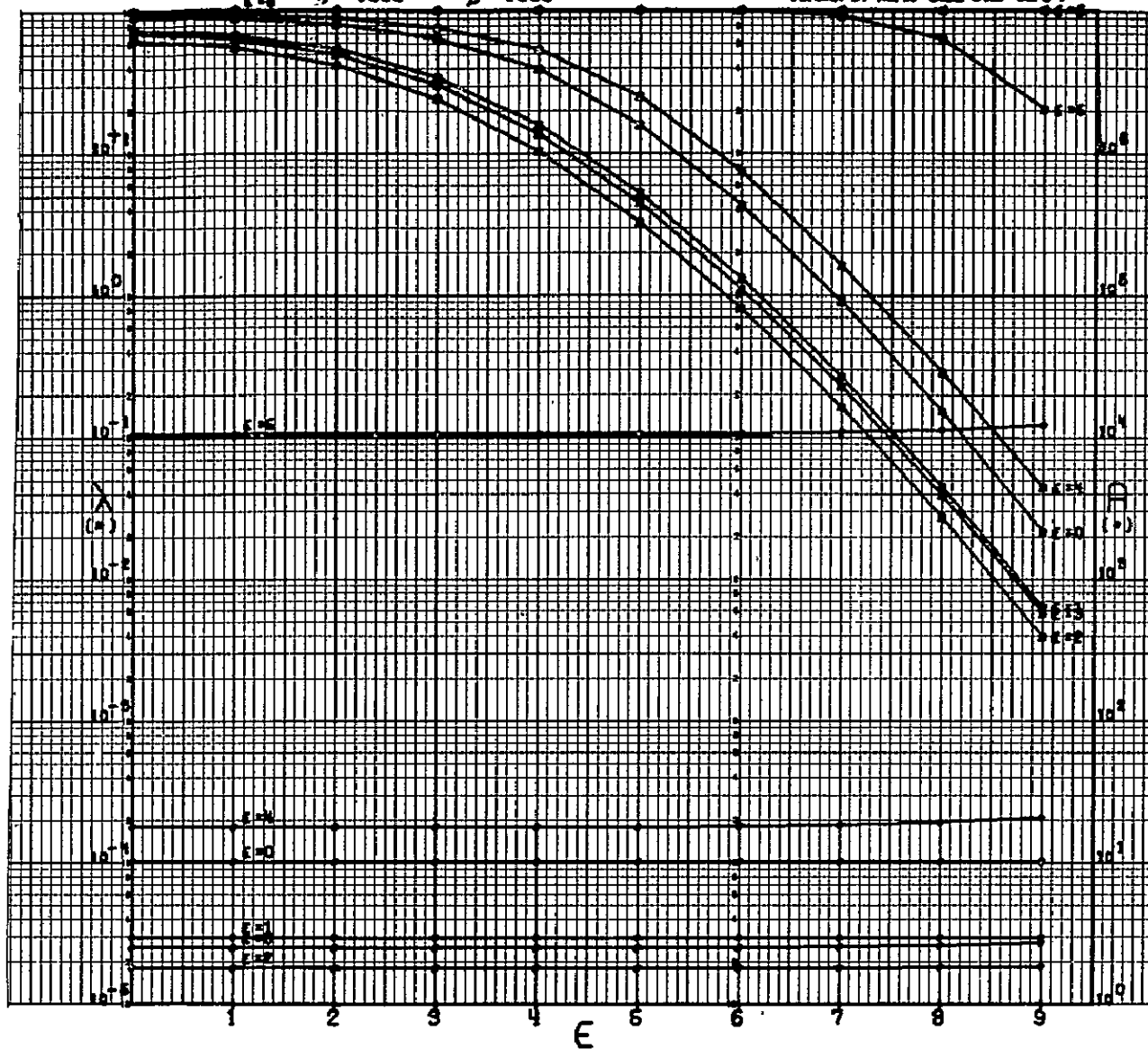
CNDE 11110301010101000000

CHFC STATIONED

$\gamma = 1000$

$\beta = 1000$

(BRAND BY ROPL. CASE 572. 22FC)



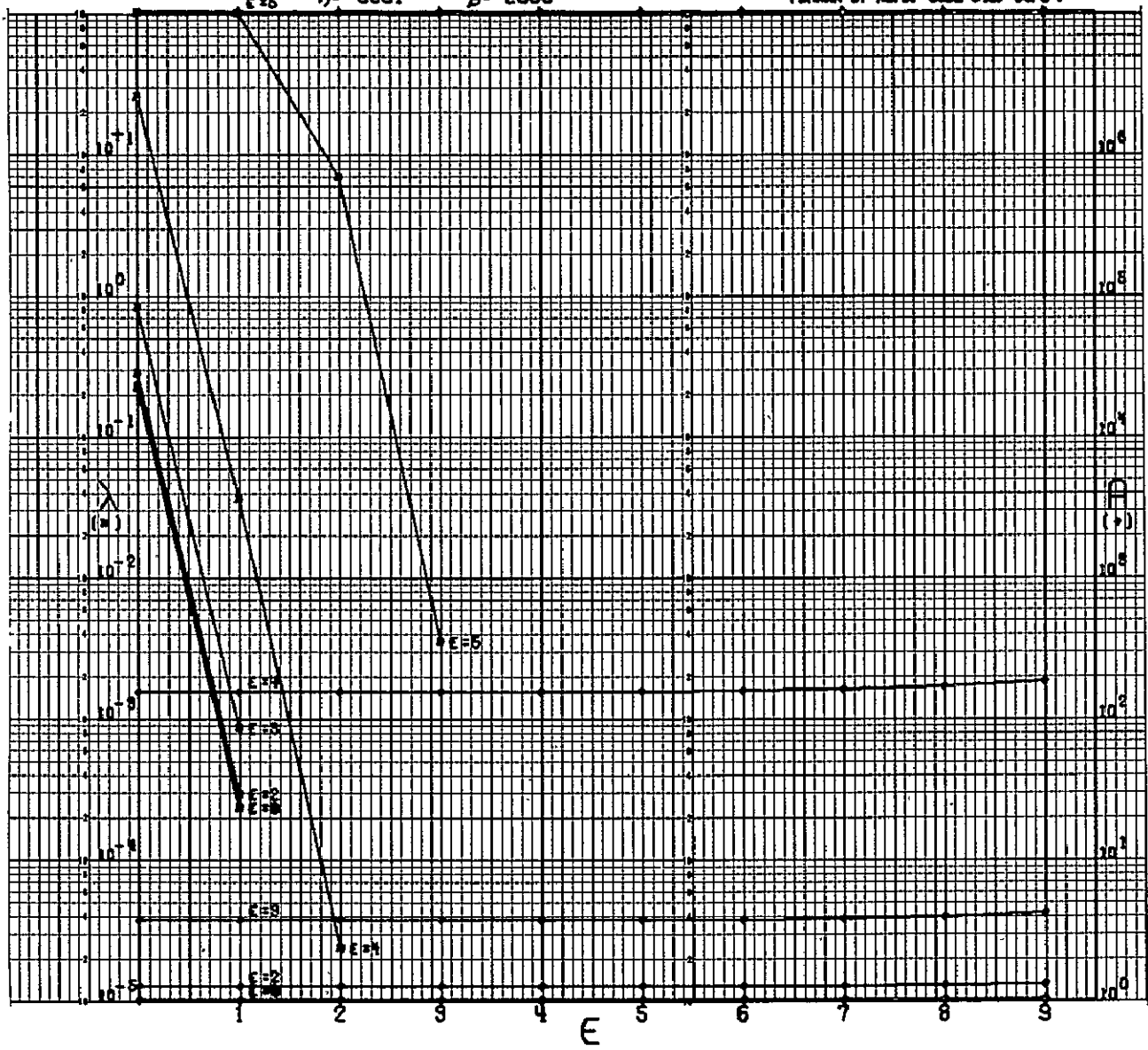
N=22

CODE 1111001101101010000000
GSPC STANDARD

$\epsilon=5$ $\eta=-0001$

$\beta=2000$

(DRAWN BY ADPBL CODE 512. GSPC)



N = 22

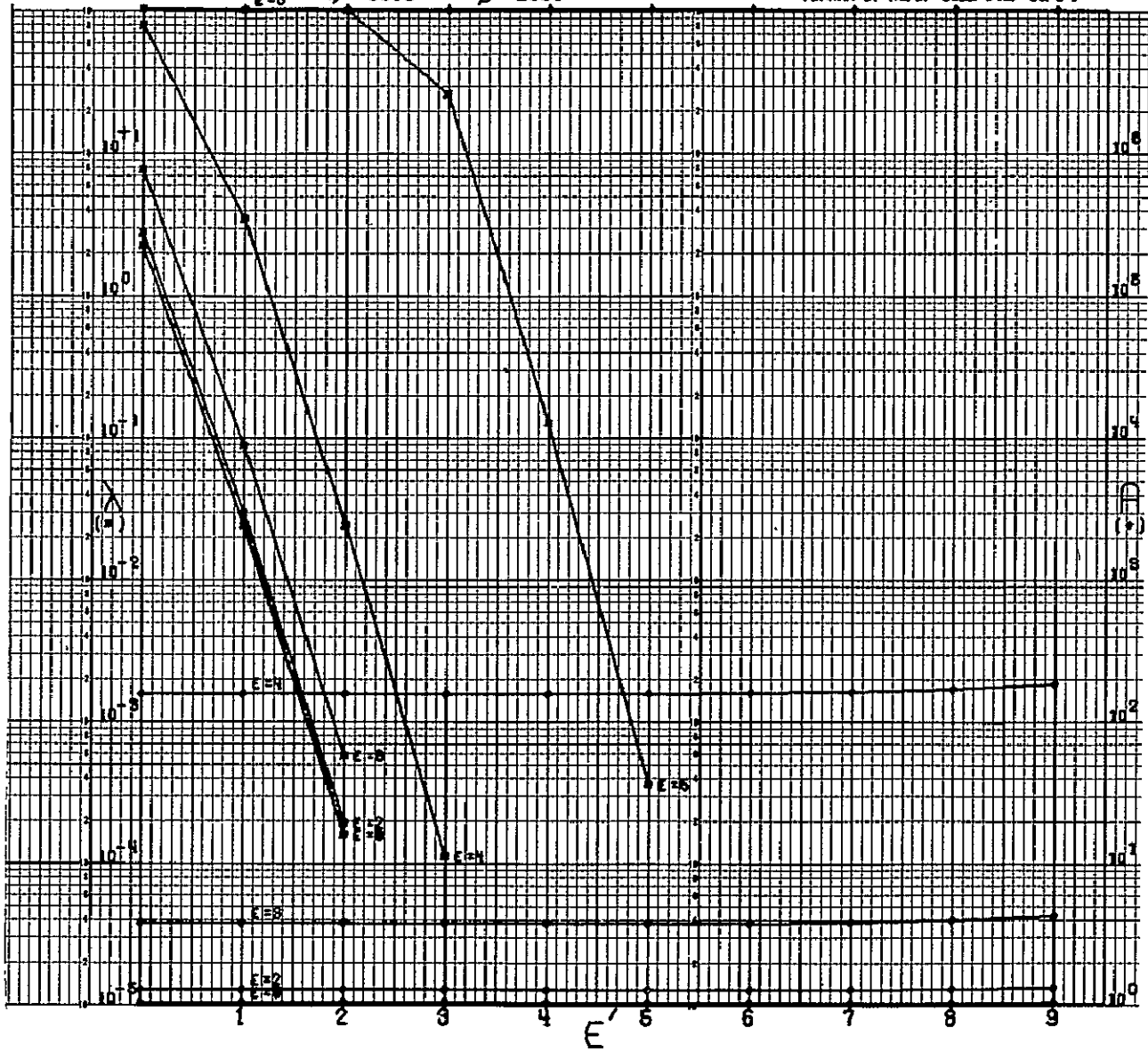
CODE 1111001101101010000000
GSFC STANDARD

$\epsilon = 5$

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



N° 22

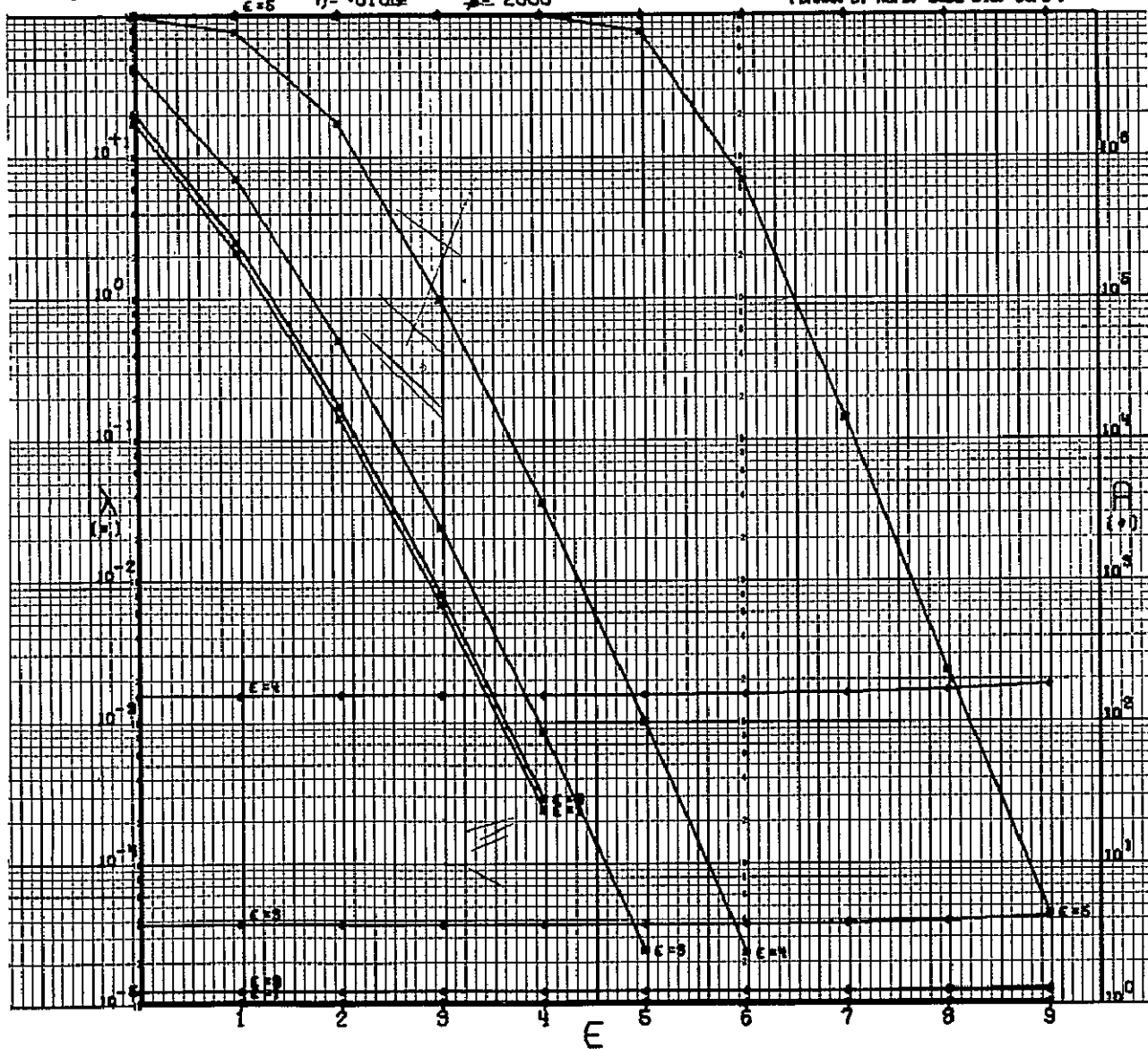
CODE 11110011011010000000

SSFC STANDARD

$\eta = 0.0100$

$\lambda = 2000$

(DRAWN BY ROPE. CODE 512. SSFC)



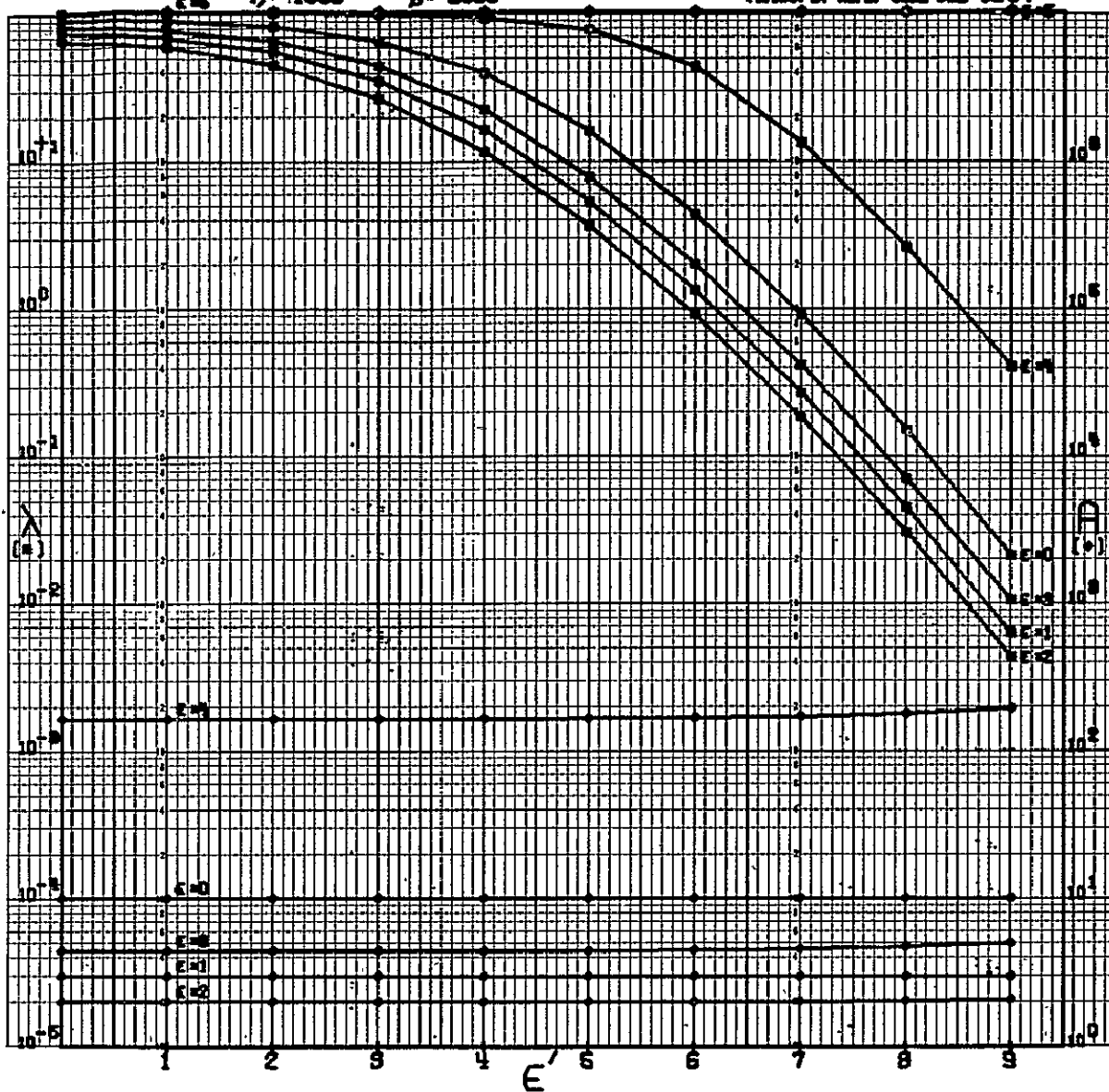
N=22

CNCE 1112001101100010000000

CMFC STANDARD

$\epsilon = 5$ $\beta = 1000$ $\beta = 2000$

(GRAPH OF CMFC CASE ONE CMFC)



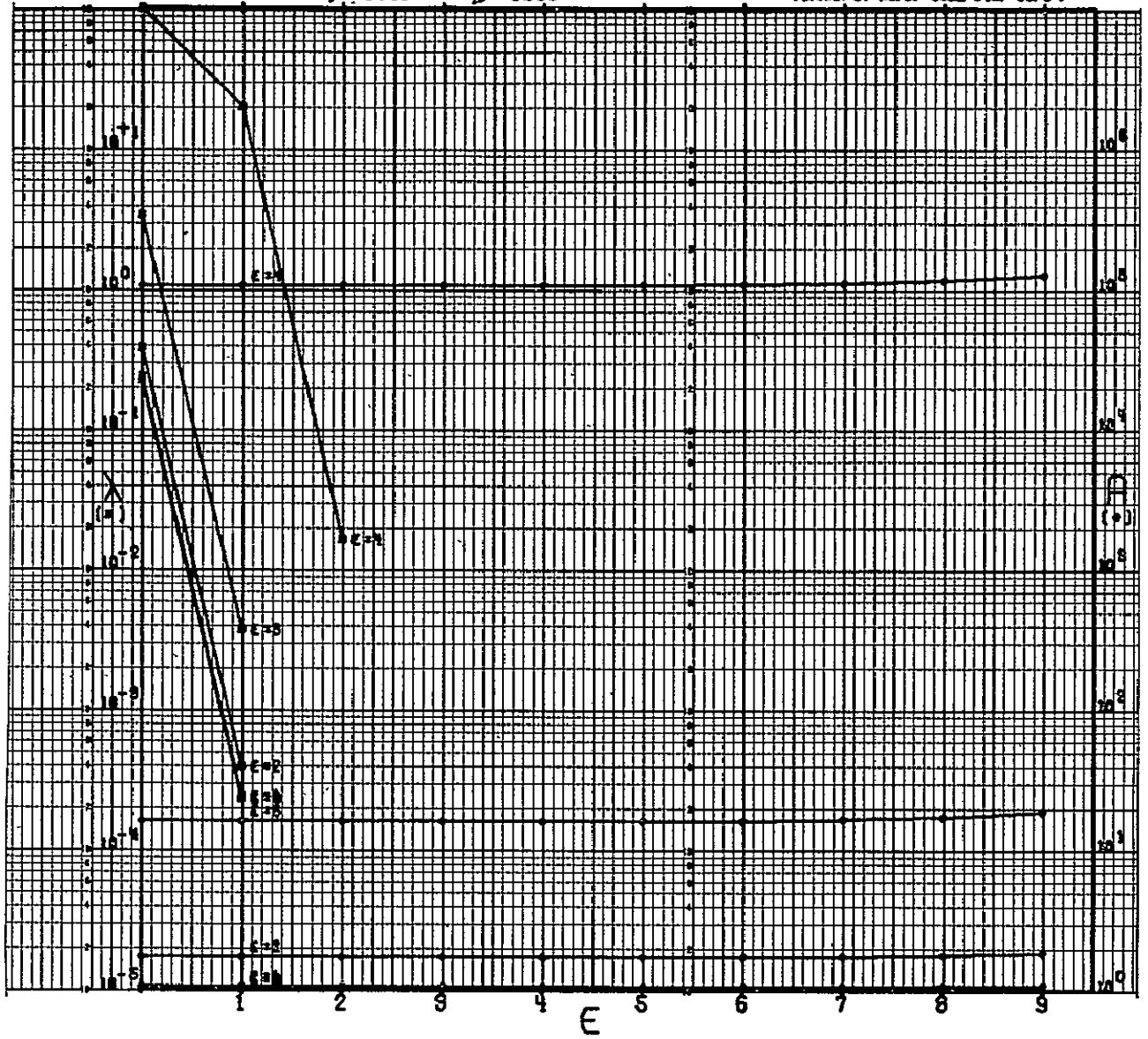
N=22

CODE 1111001101101010000000
GIVE STRONG

$\eta = -0.001$

$\beta = 5000$

(FORM 87 ACPL CODE 012, 00FC)



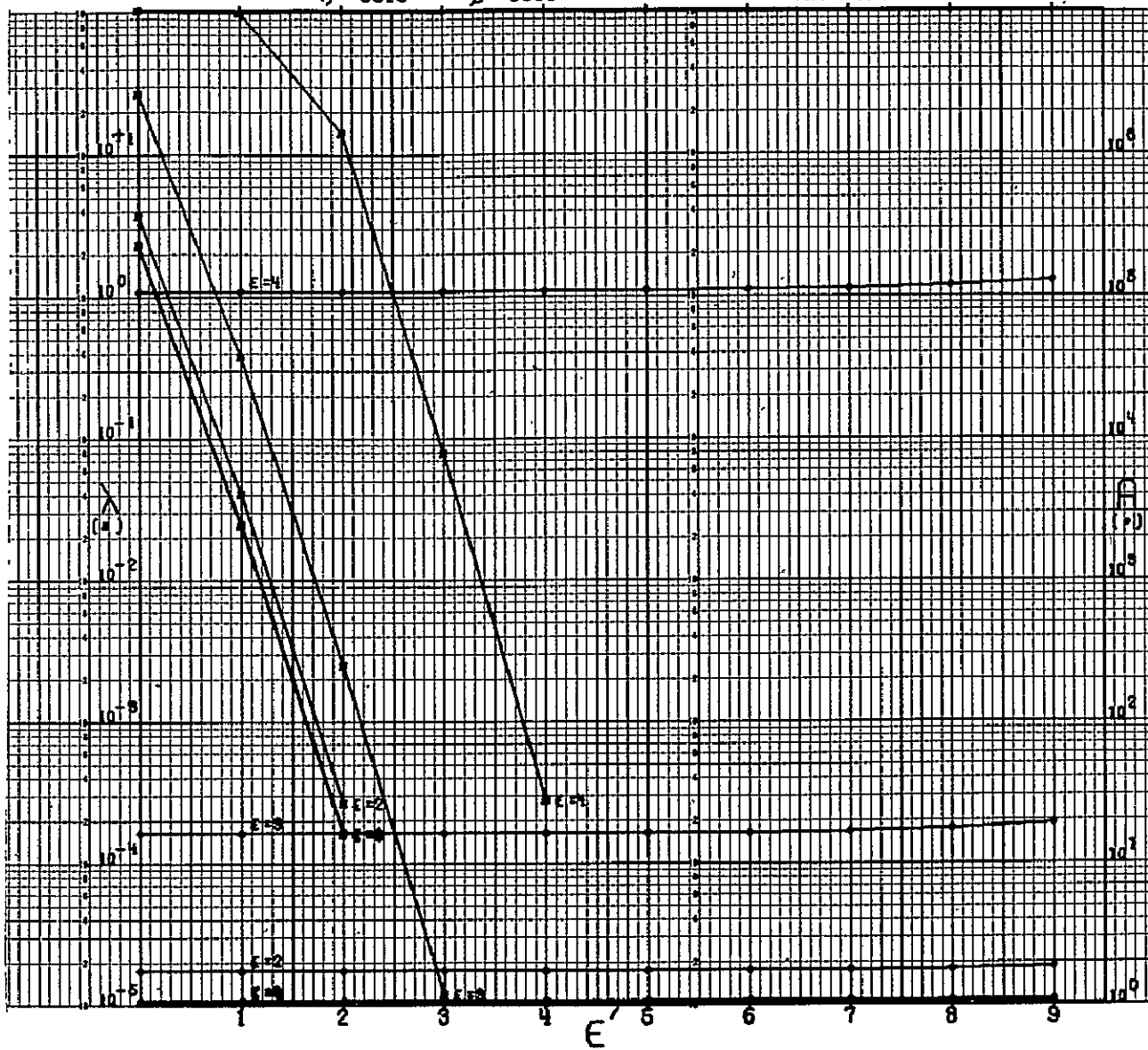
N=22

CODE 1111001101101010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY NOPS. CODE 512. GSFC.)



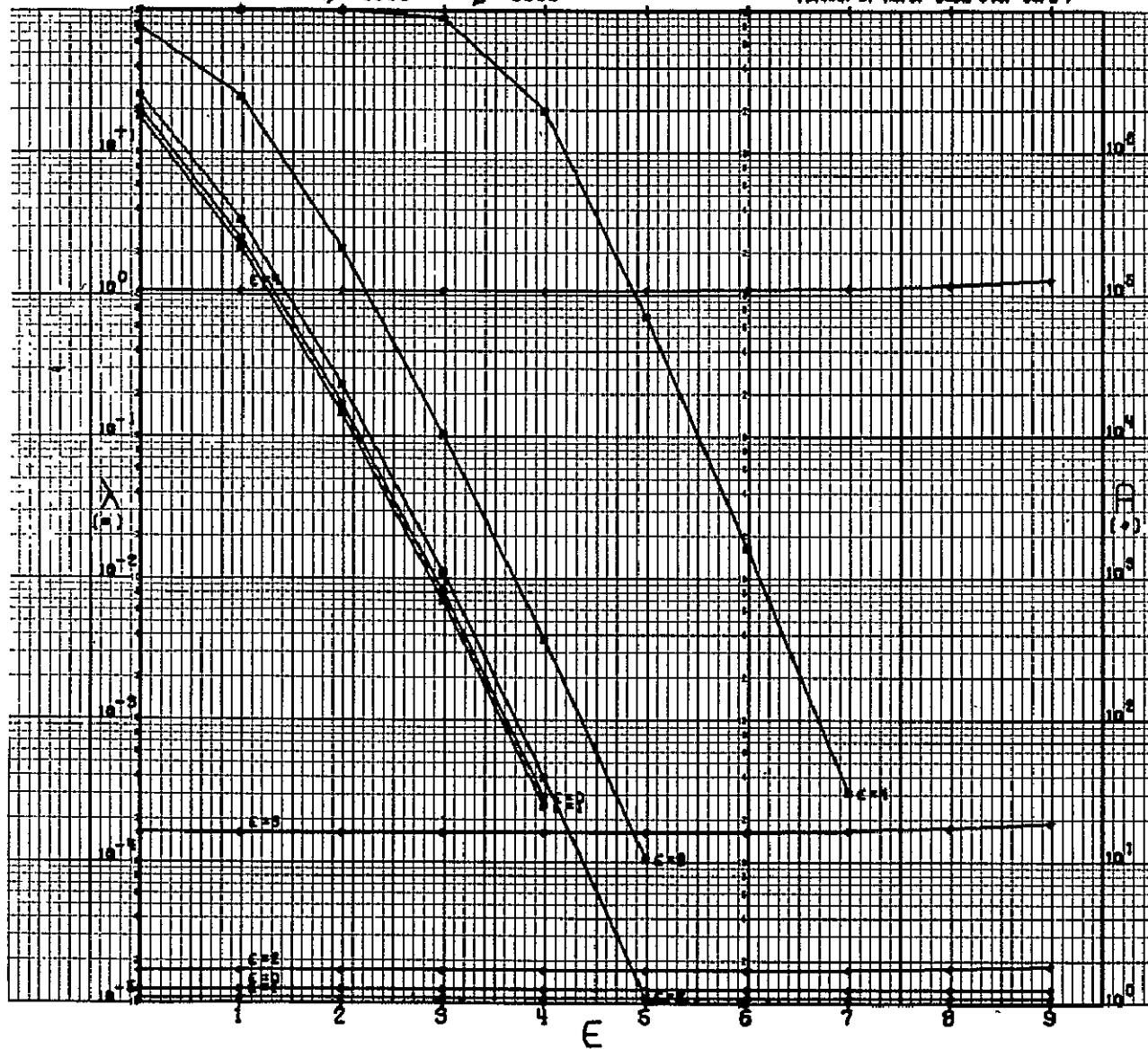
N° 22

CODE 1111001101101010000000
GFC STANDARD

$\eta = -0100$

$\beta = 5000$

(DRAWN BY ROPS, CODE 512, GFC)



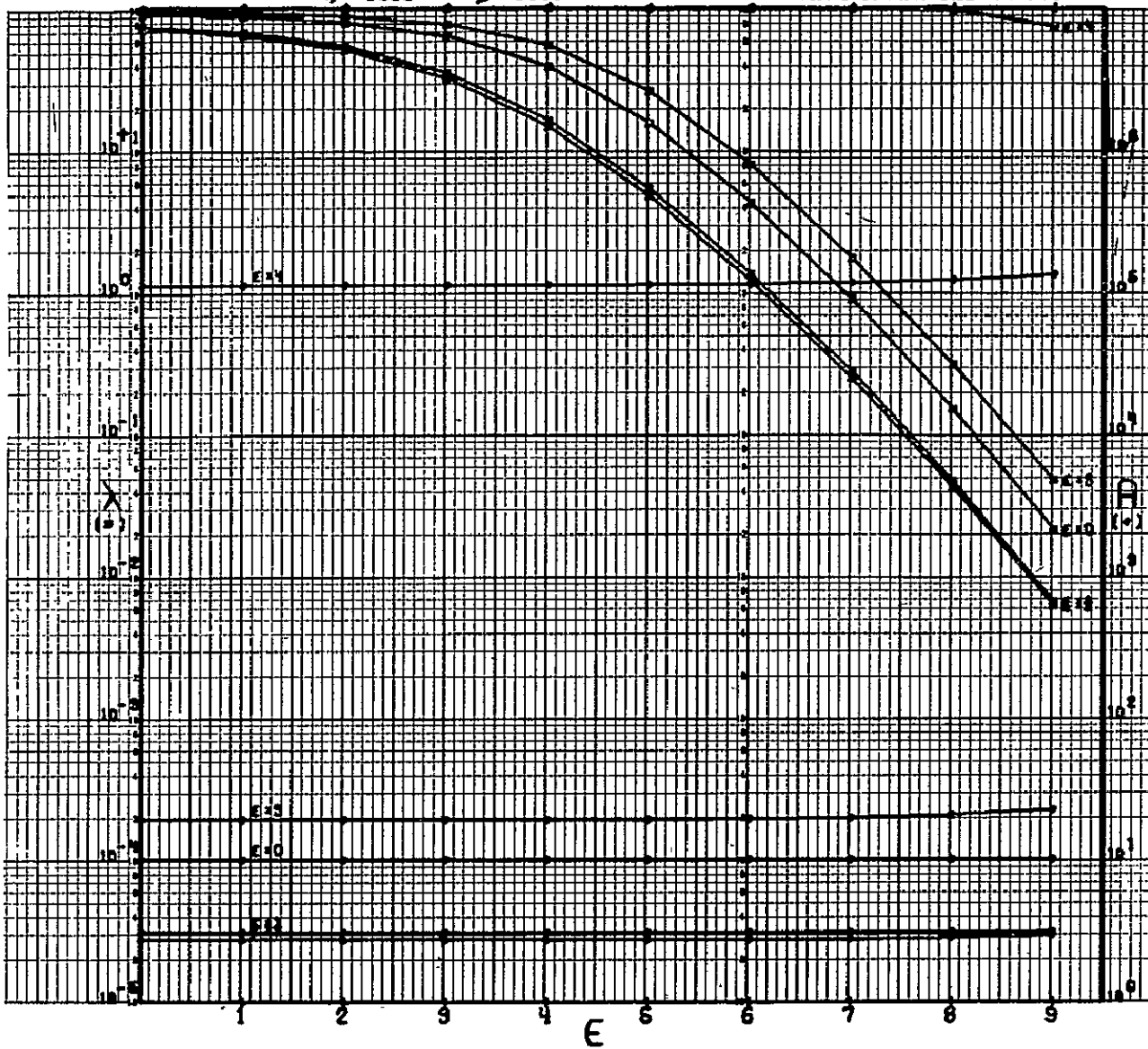
N=22

CASE 1111001181101010000000
SAFE STANDARD

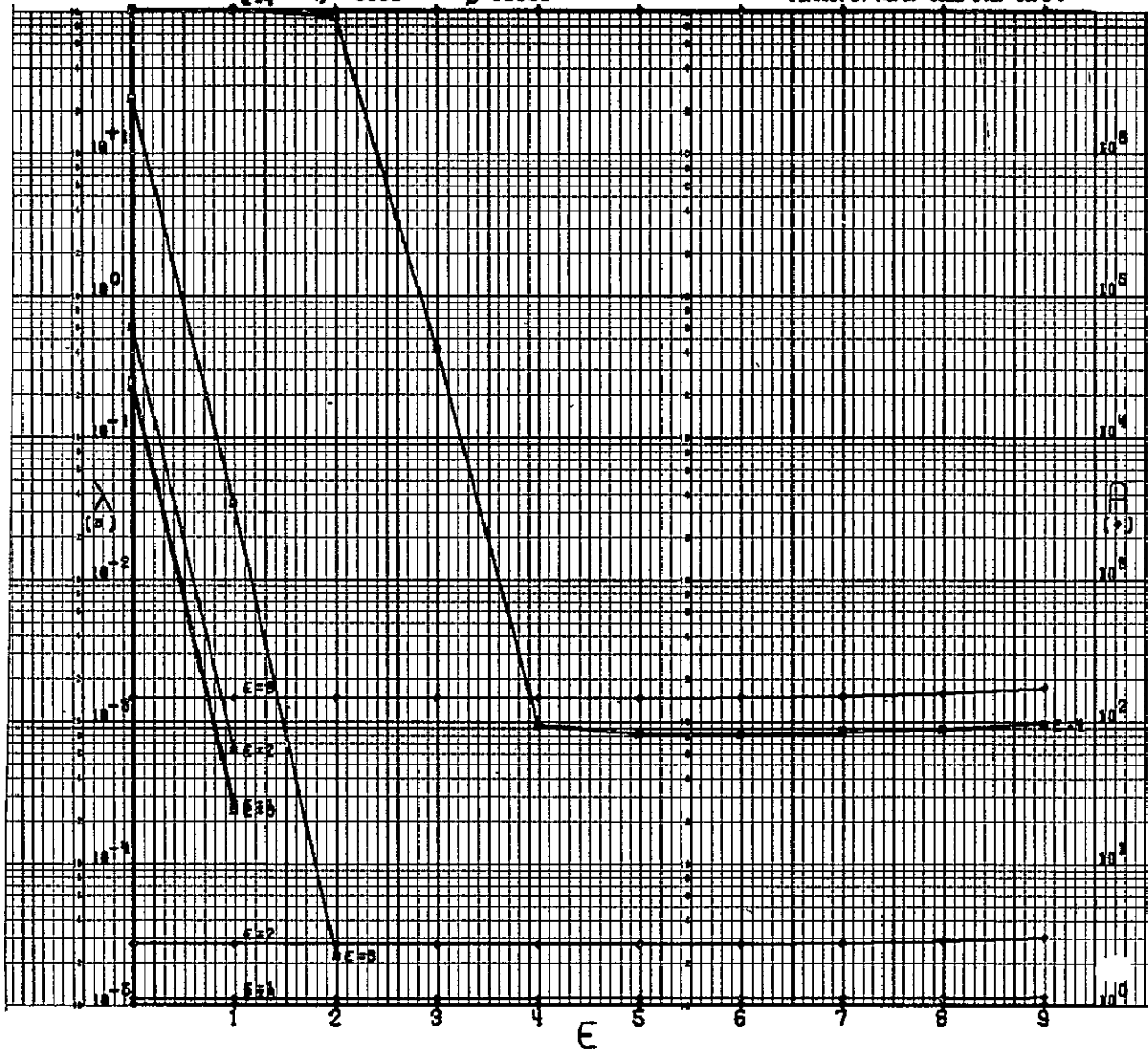
$b^* = 1000$

$\beta^* = 5000$

(BASED ON NOPS, CASE 512, SAFE)



N=22 CASE 111100110101016000000
 CASE 8730000 $\eta = -0001$ $\beta = 10000$ (DRAWN BY RCPB, CASE 872, CASE 1)



N=22

CODE 11110011011010000000

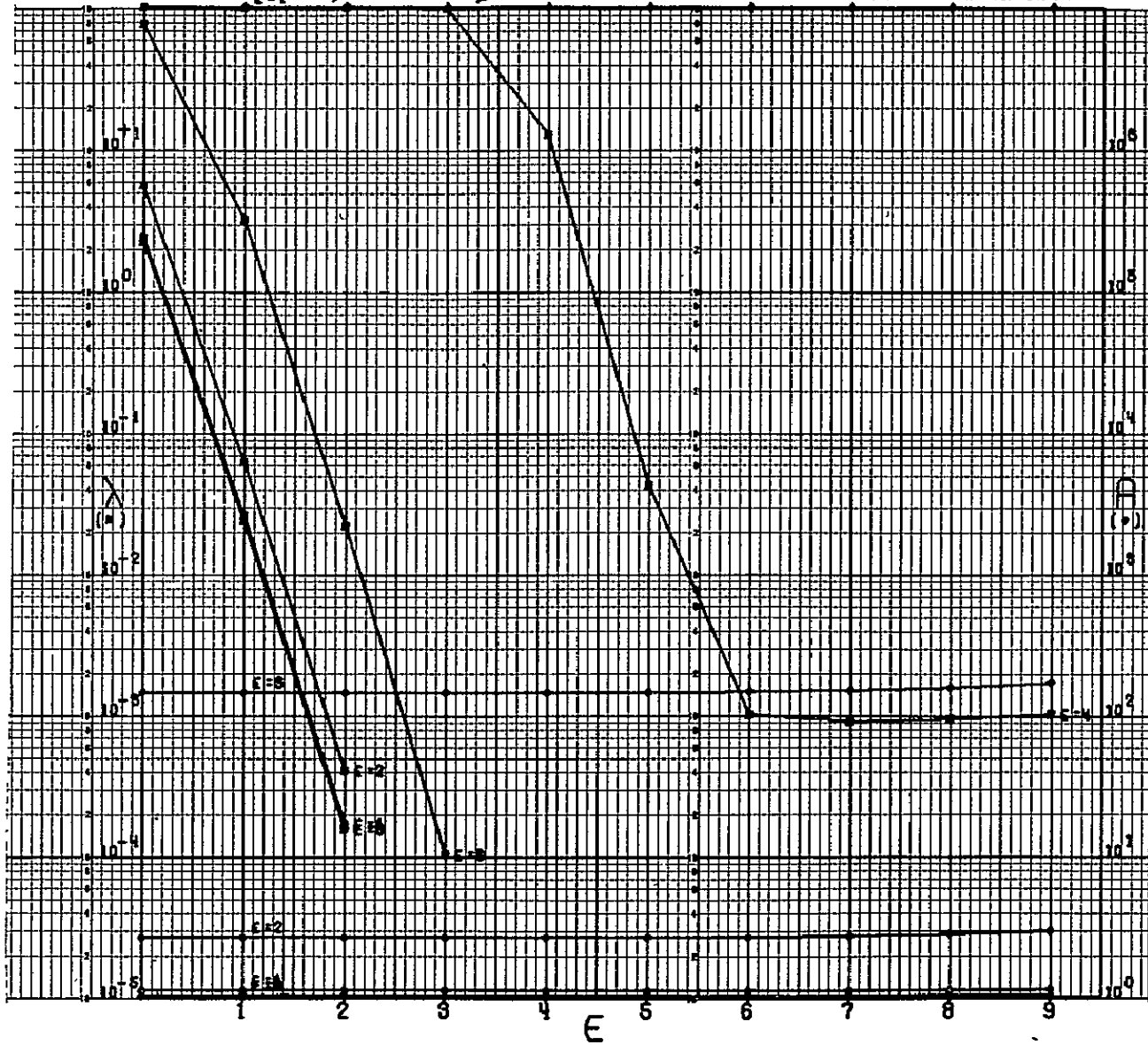
GSFC STANDARD

$\epsilon = 4$

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPD, CODE 542, GSFC)



A-500

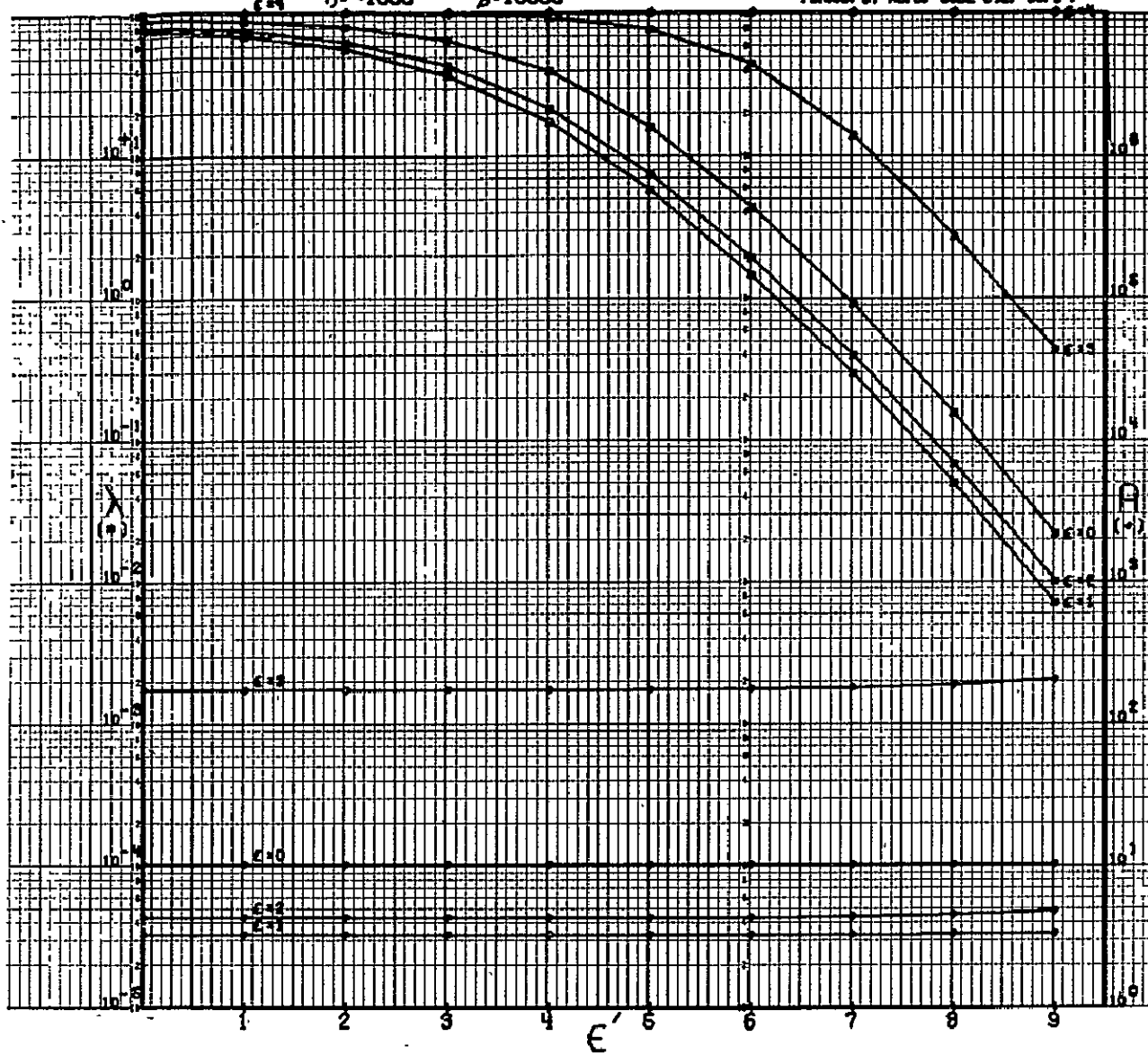
N° 22

CODE 11110011011010000000
GFC STANDARD

$h = 1000$

$\beta = 10000$

(DESIGN BY NOPS. CODE 572. GFC)



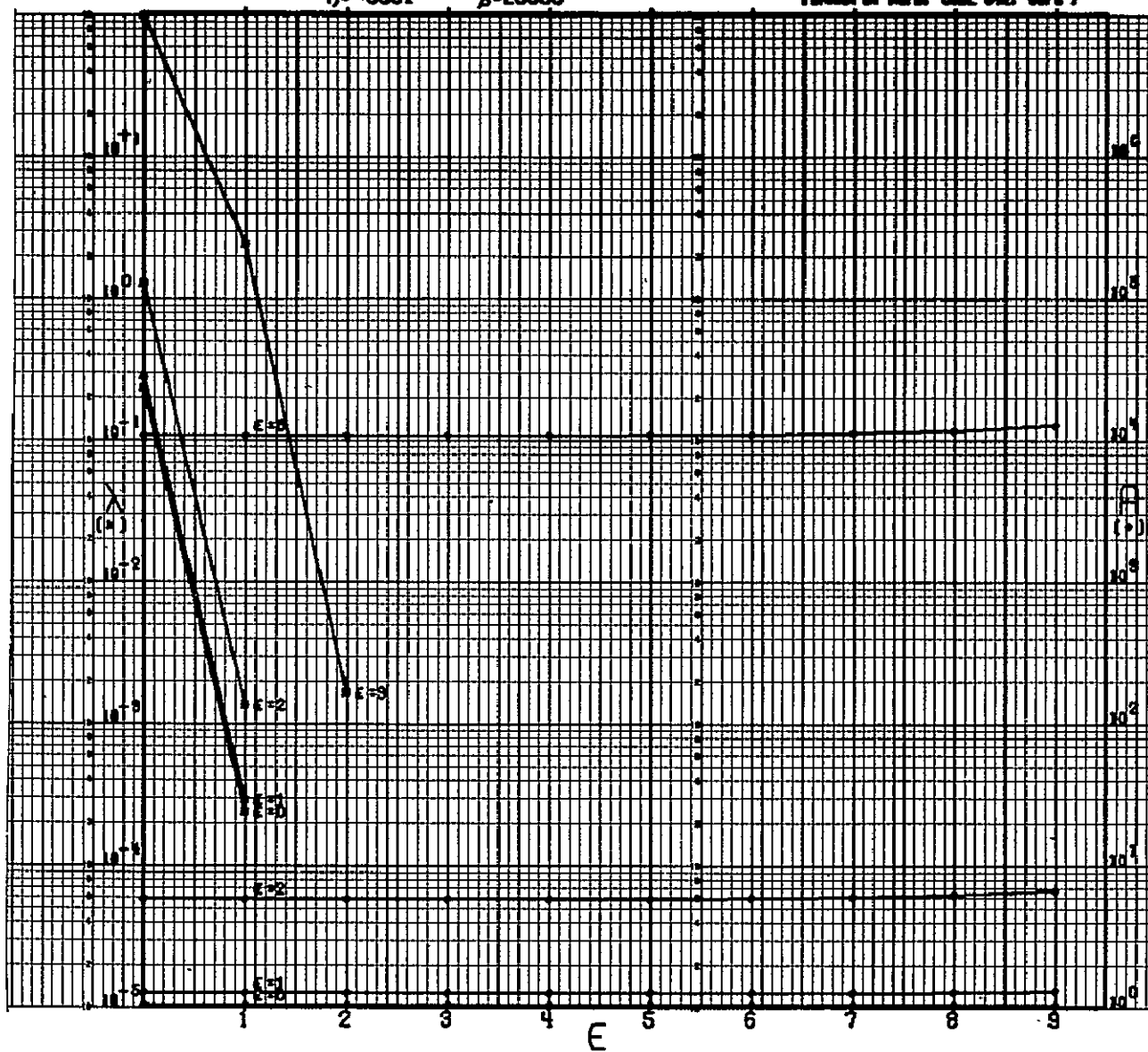
N=22

CORE 1113001101301018080000
SFC STANDARD

$\eta = -0001$

$\beta = 20000$

(GRAPH OF AEP, CORE SFC, SFC)



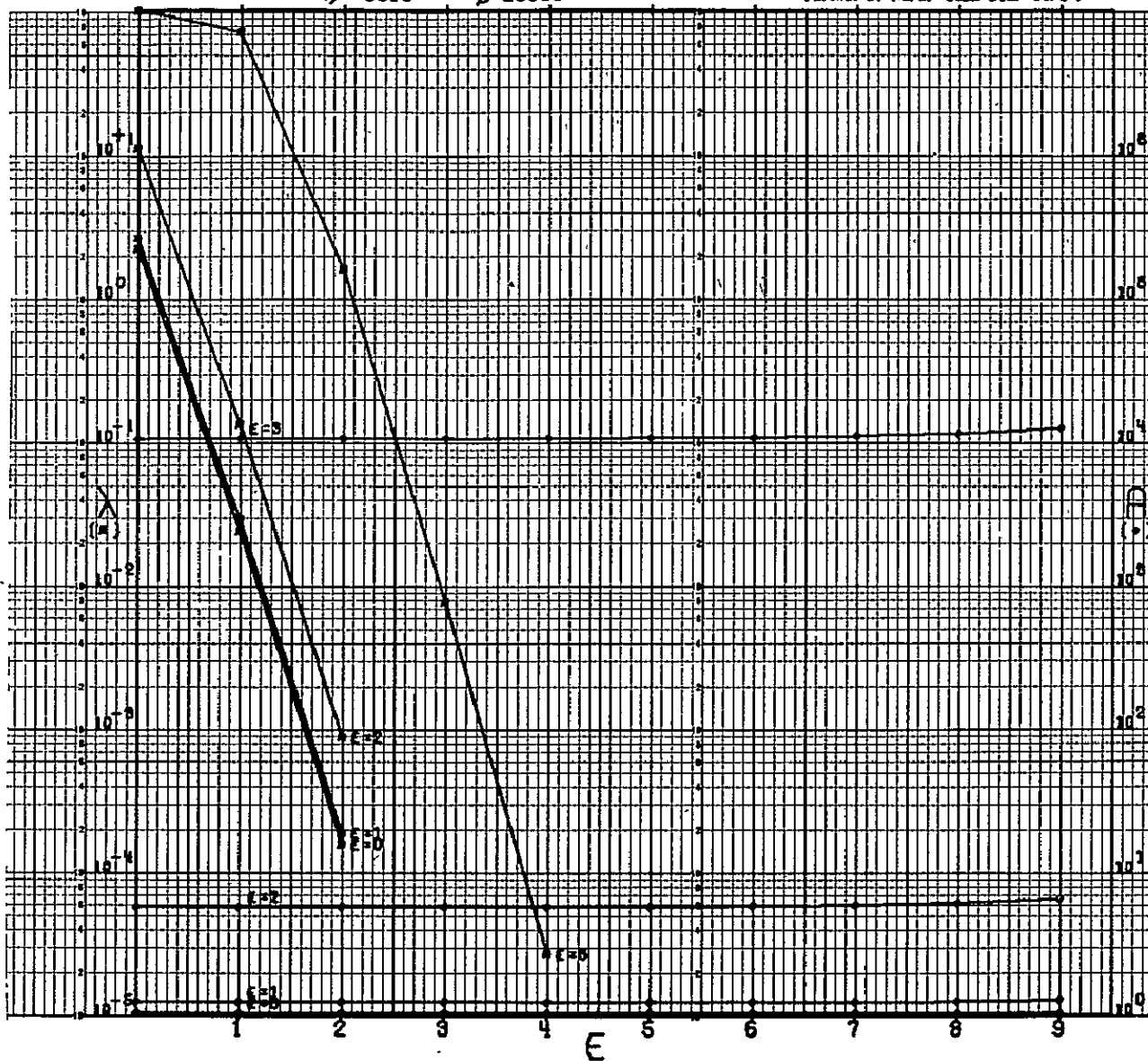
N=22

CASE 1111001101101010000000
GSFC STANDARD

$\eta = +0010$

$\beta = 20000$

(DRAWN BY ACPB, CASE 542, GSFC)



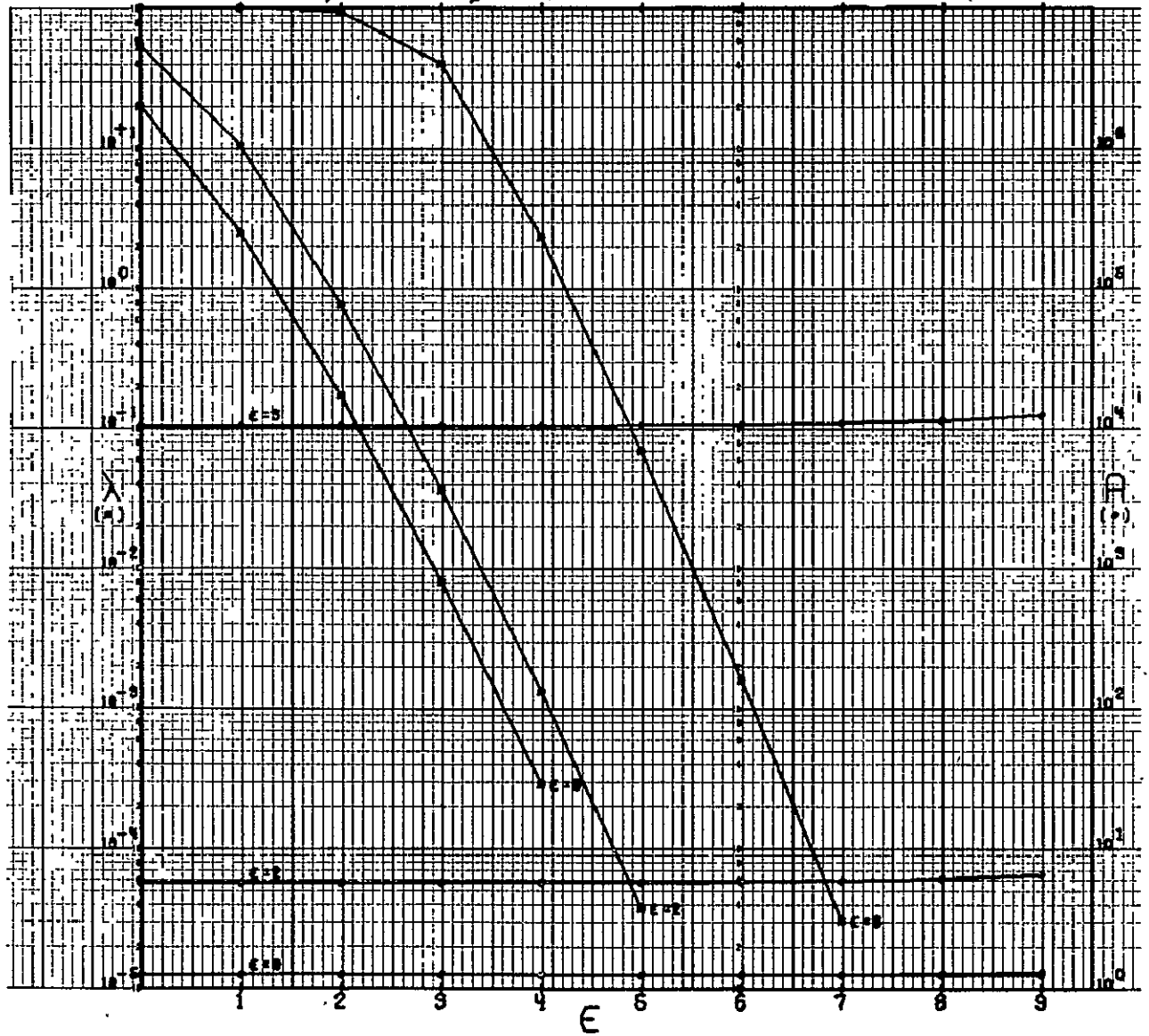
N=22

CODE 1111001101101010000000
GFC STANDARD

$\eta = +0100$

$\beta = 20000$

(BRUSH BY ROPS, CODE 592, GFC)



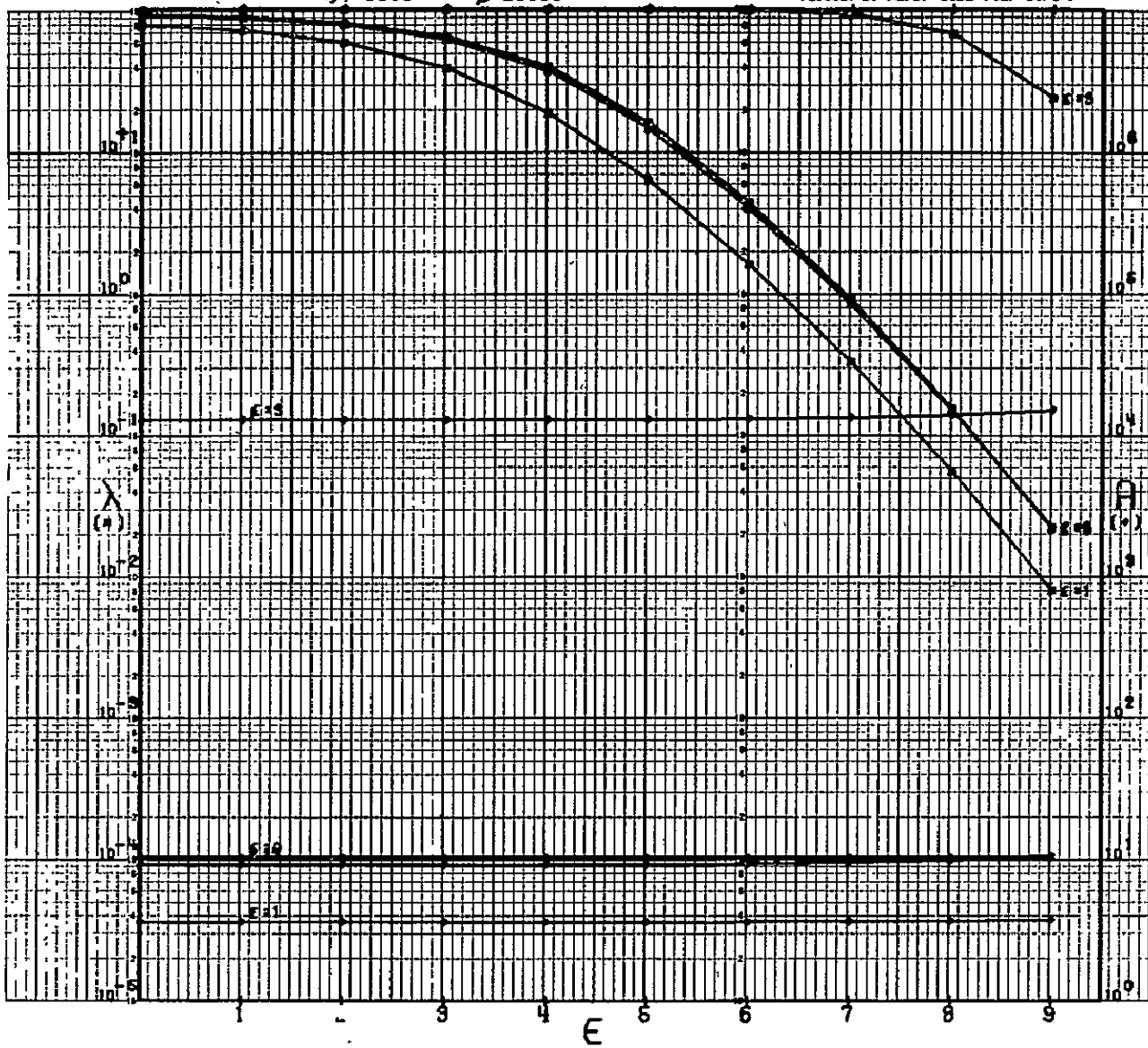
N° 22

CNDE 1111001101101010000000
GFC STANDARD.

$\eta = 1000$

$\beta = 20000$

(APPROX BY SEPS. CNDE 012. GFC)



$$N = 23$$

N = 23

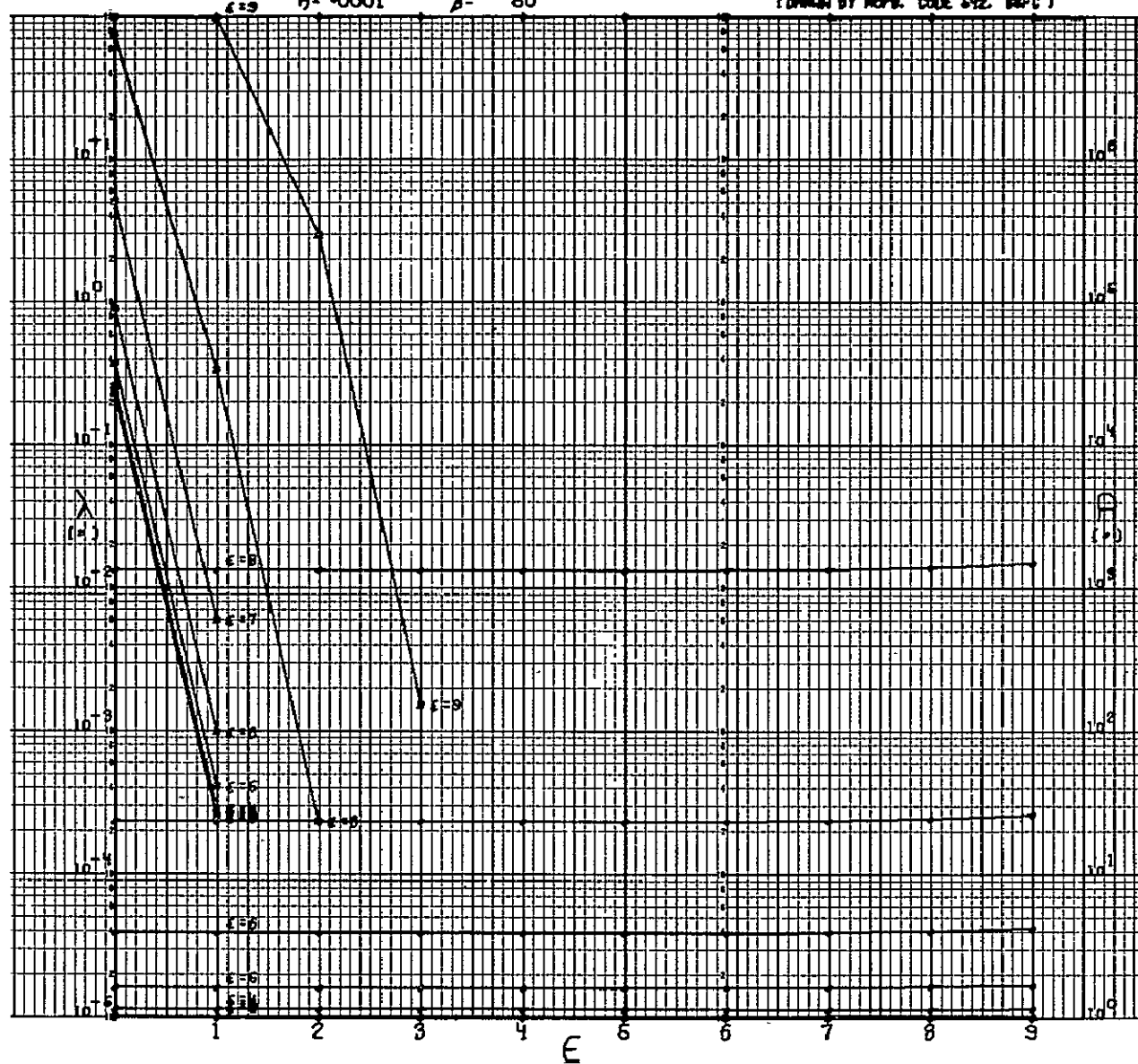
CODE 11110101110011010000000

66FC STANDARD

$h = +0001$

$\beta = 50$

1 DRAWN BY ROPS. CODE 542. 66FC 1



A-507

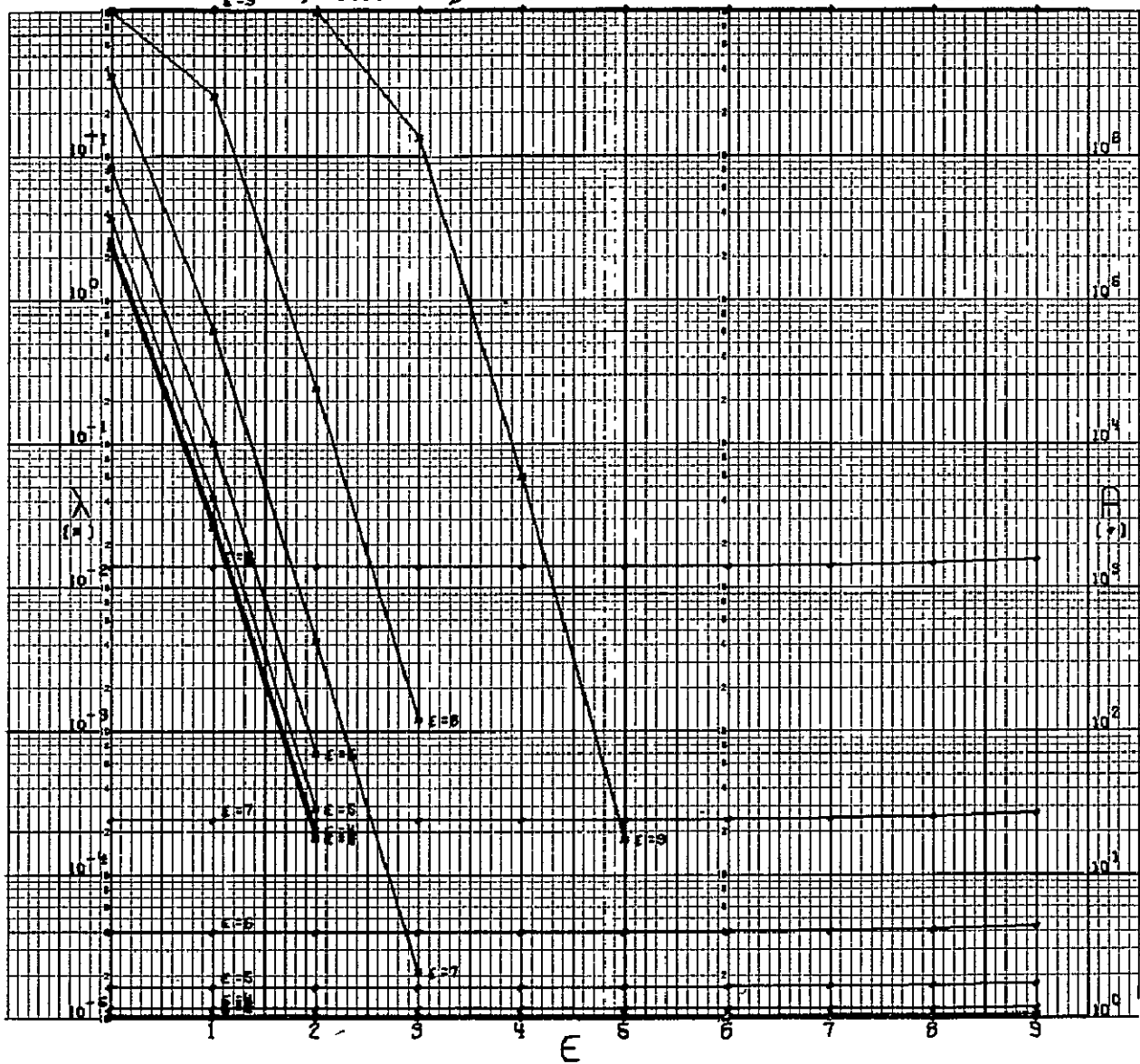
N=23

CODE 31130103110011010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY AOPB, CODE 542, GSFC)



N° 23

CODE 1111010111001101000000

GGFC STANDARD

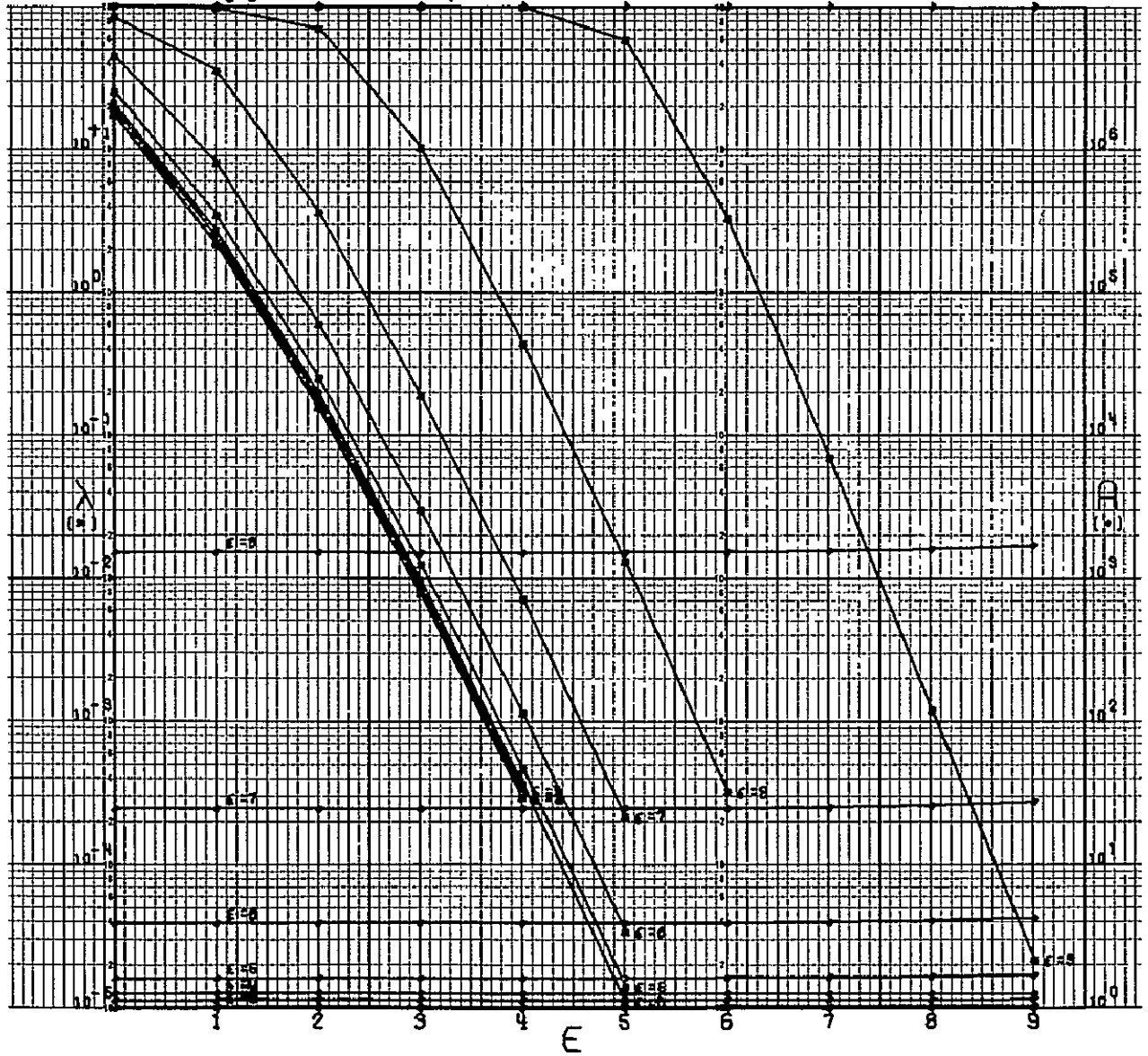
$\epsilon = 9$

$\eta = 0100$

$\beta =$

50

(DRAWN BY ADPL CODE 542, GGFC)



N=28

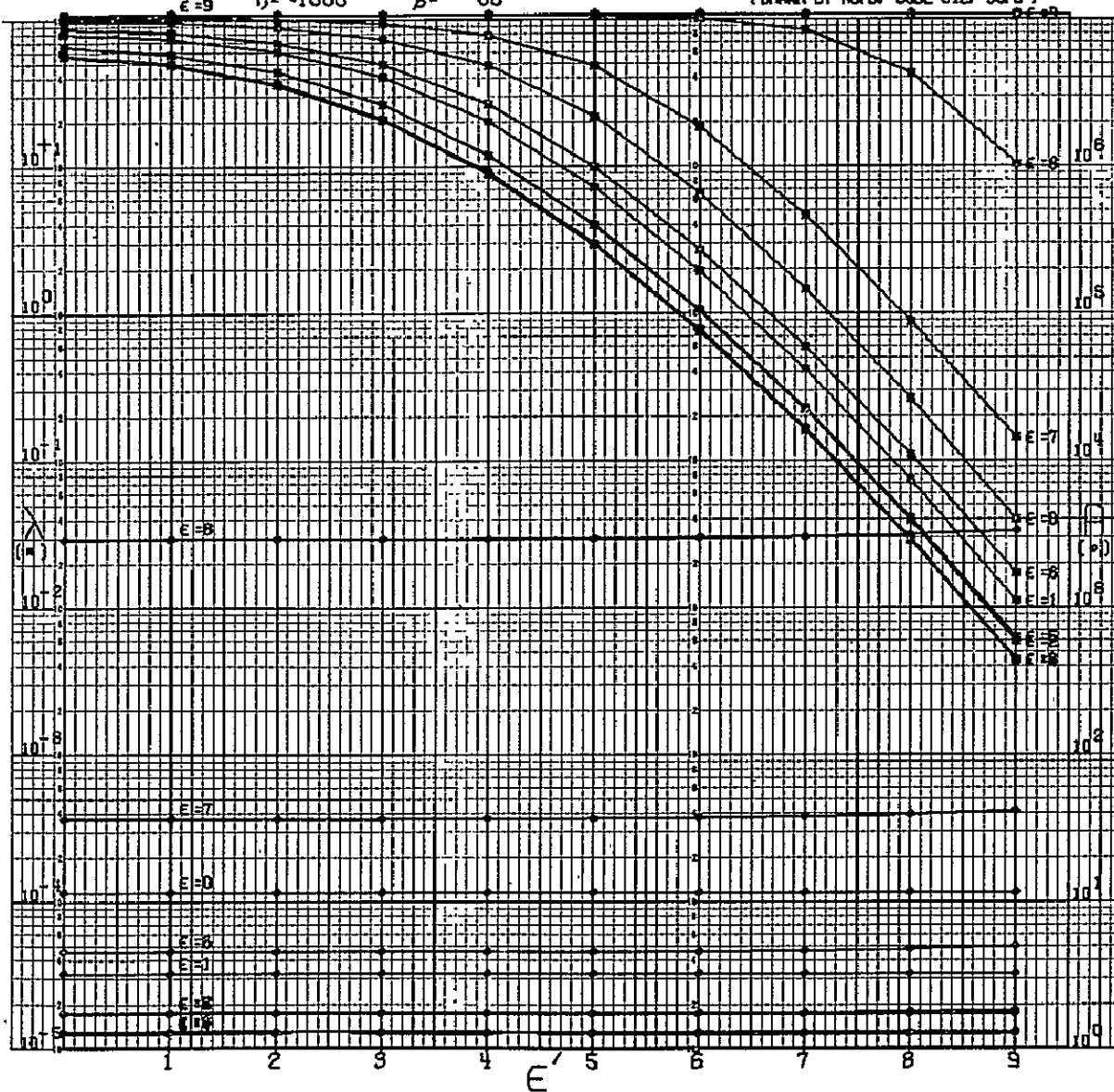
CODE 11110101110011010000000

GSFC STANDARD

$\eta = -1000$

$\beta = 50$

(DRAWN BY ROPS, CODE 642, GSFC)



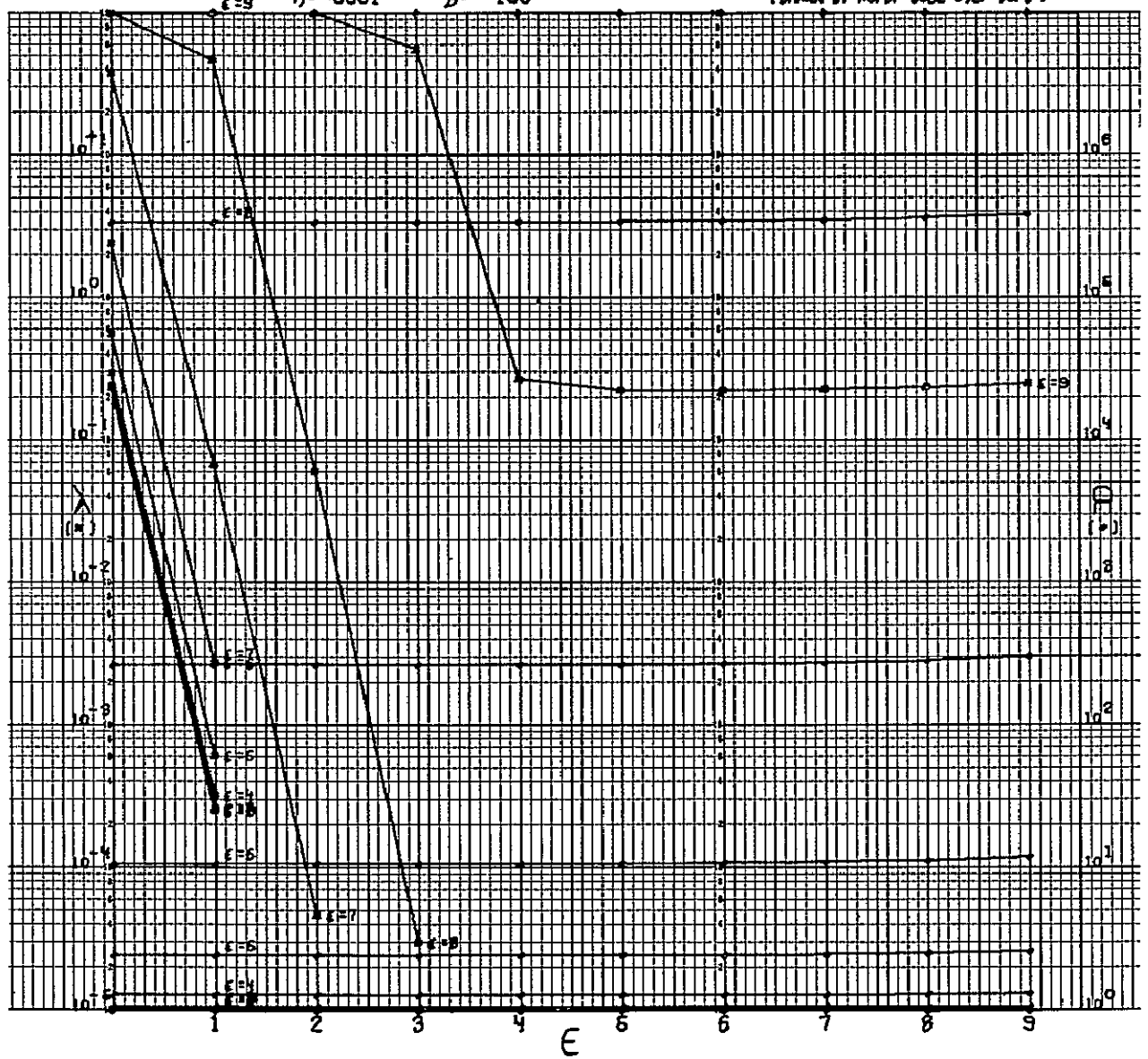
N = 23

CODE 111101011100110100000000
SEFC STANDARD

$\epsilon = 9$ $\eta = 0.0001$

$\beta = 100$

(DRAWN BY POPP, CODE 642, SEFC)



v=23

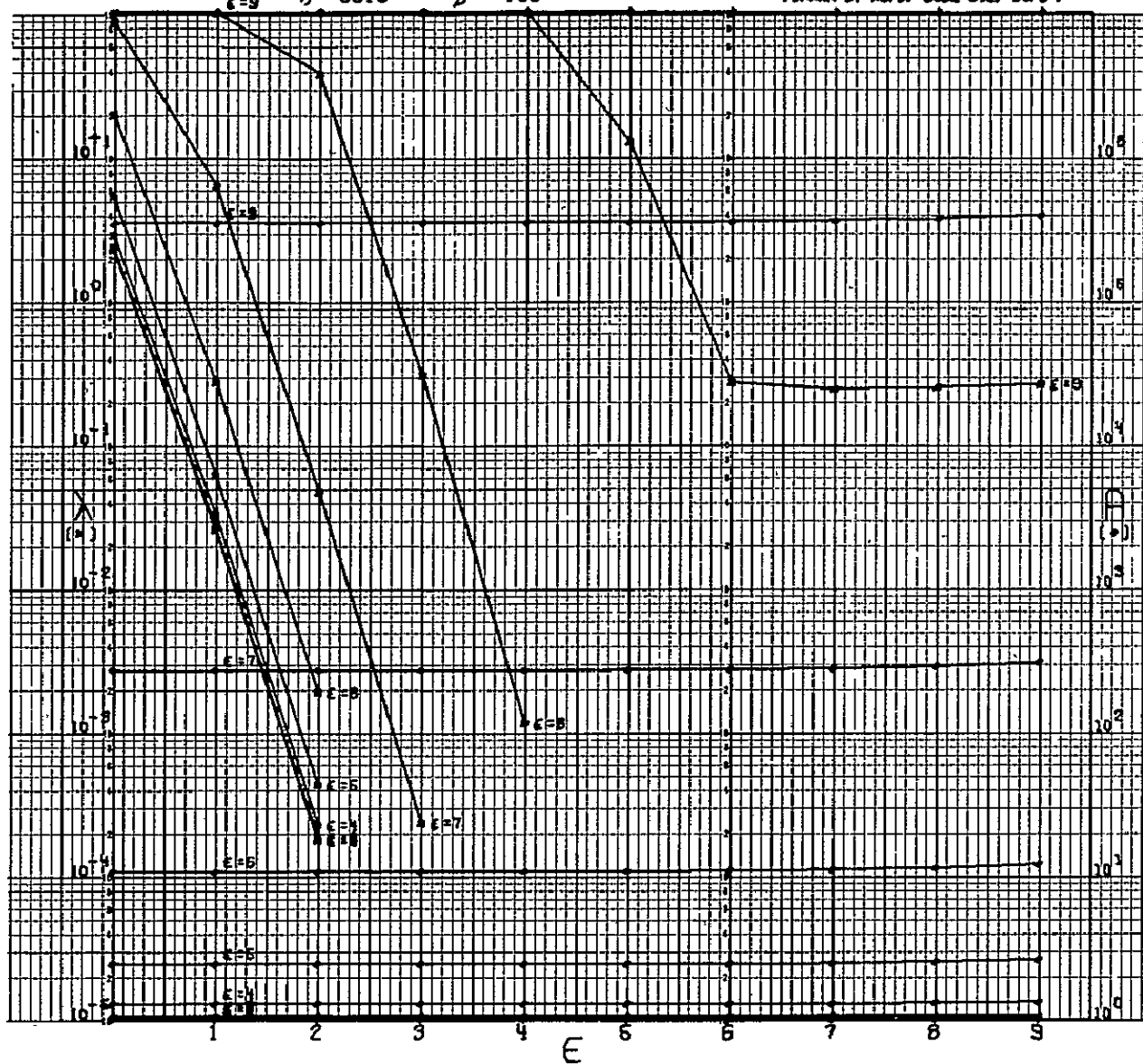
CODE 11110101110011010000000

GSFC STANDARD

$b = .0010$

$\beta = 100$

(DRAWN BY ROYB. CODE 512. GSFC)



N=23

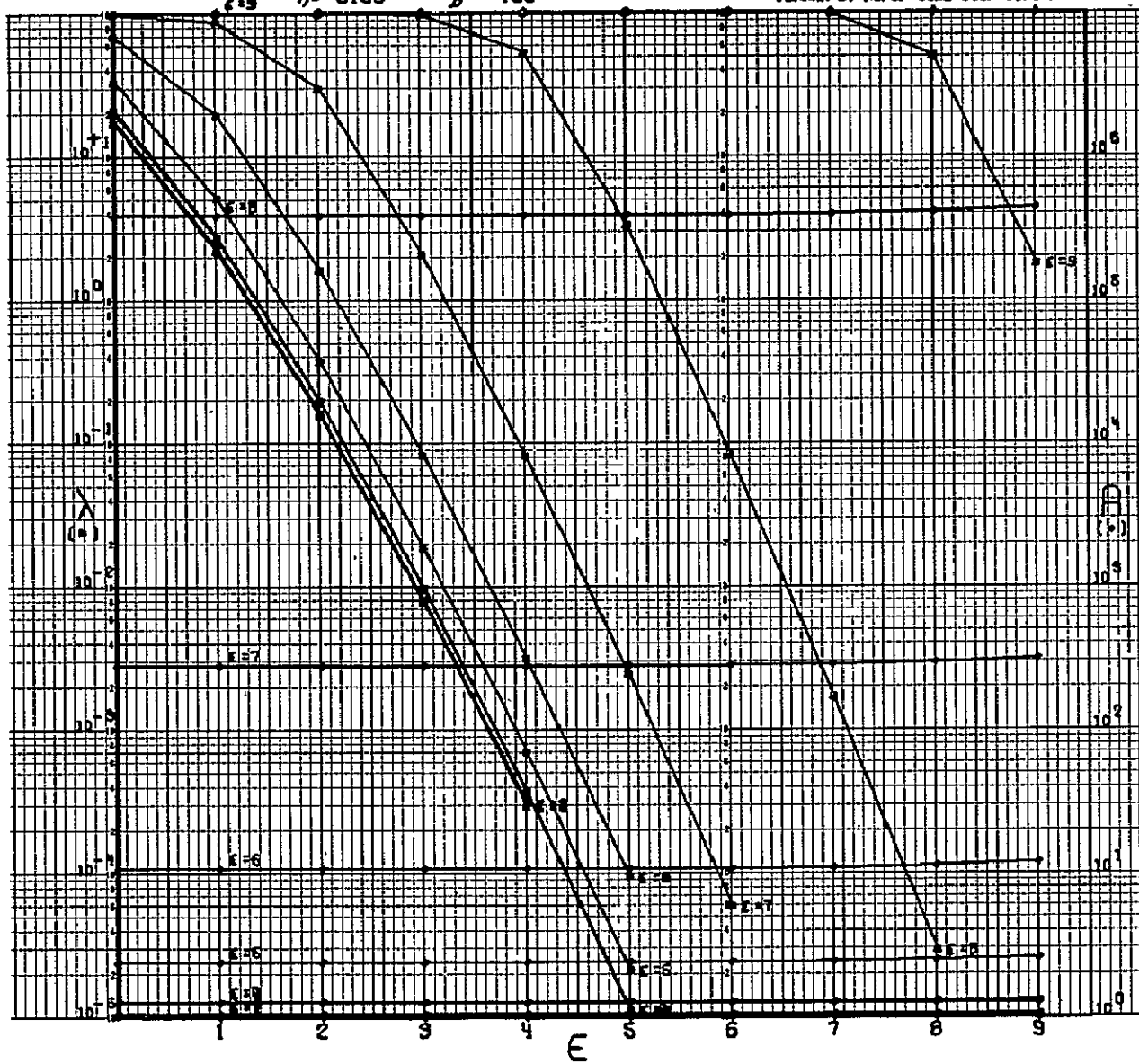
CODE 11110101110011010000000

SEFC STANDARD

$\eta = 0.100$

$\beta = 100$

1. DRAWN BY ADP6, CODE 592, GSPC 1



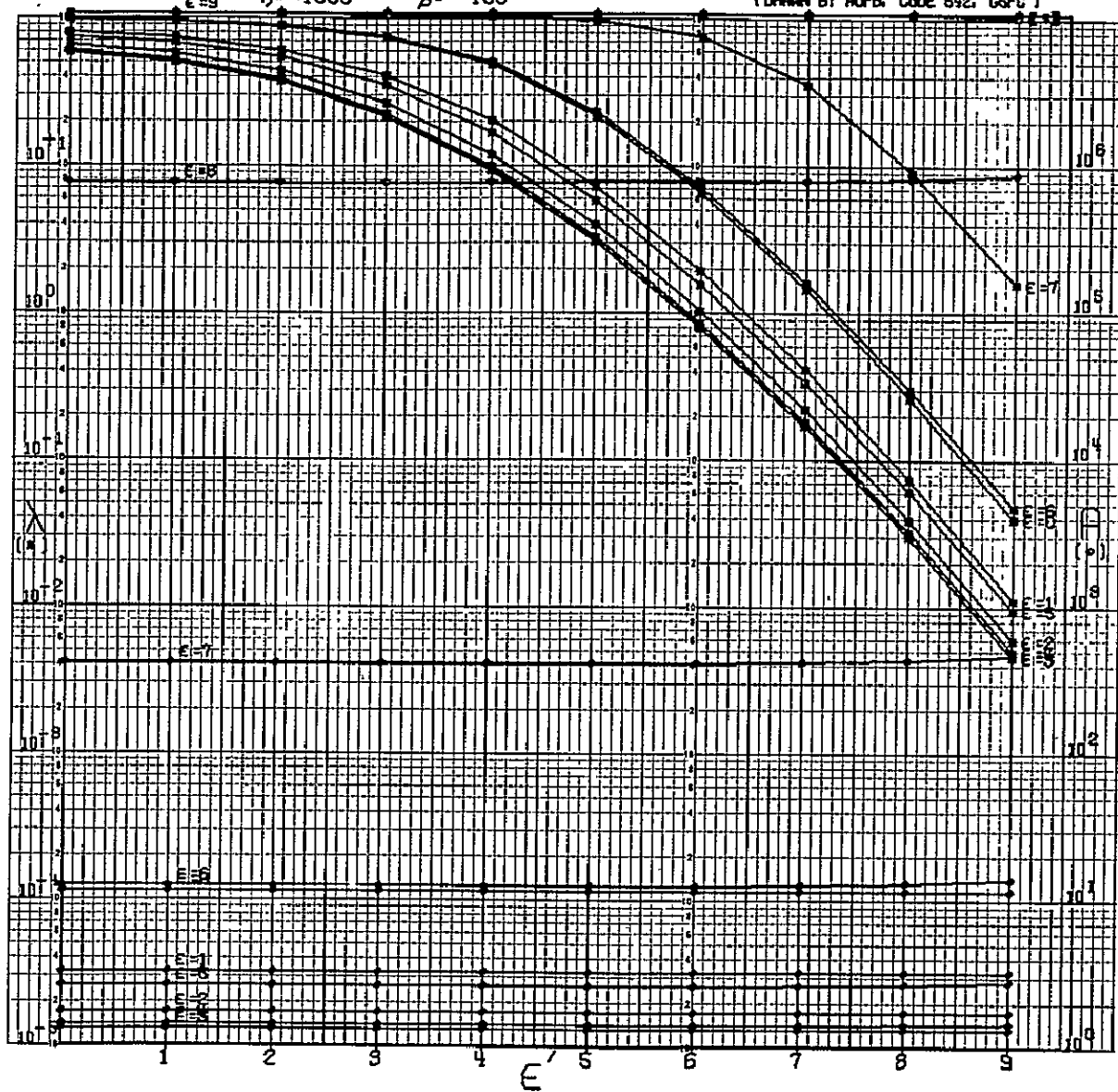
N=29

CODE 11110101110011010000000
GSFC STANDARD

$\epsilon = 9$ $h = 1000$

$\beta = 100$

(DRAWN BY ROMB. CODE 542, GSFC)



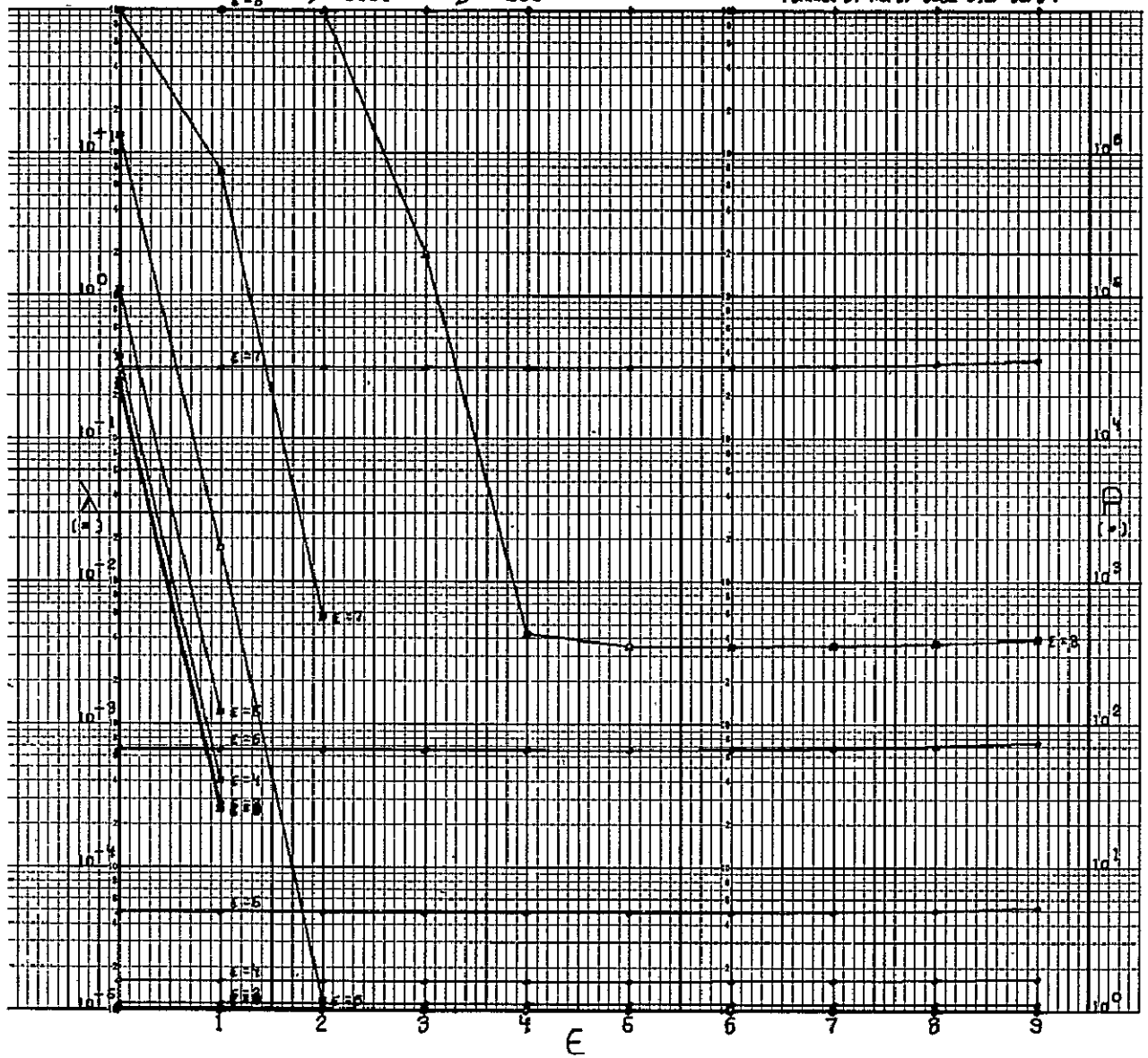
N = 23

CODE 11110101110011010000000
GSFC STANDARD

$\epsilon = 8$ $\eta = .0001$

$\beta = 200$

(ORIGIN BY ROPS. CODE 542. GSFC)



N=23

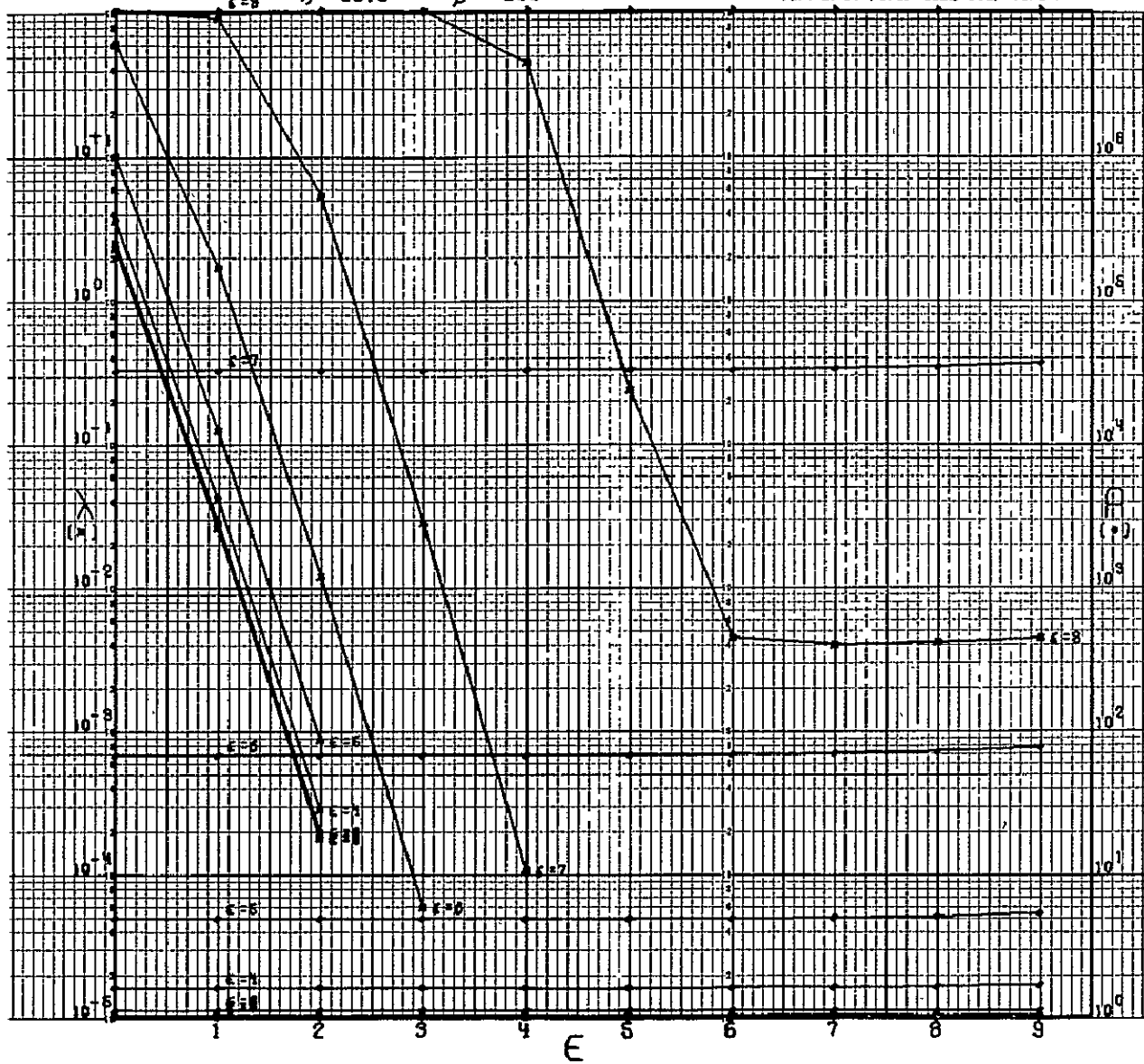
CODE 31110101110011010000000

GSFC STANDARD

$h = .0010$

$\beta = 200$

(DRAWN BY ADP. CODE 542, GSFC)



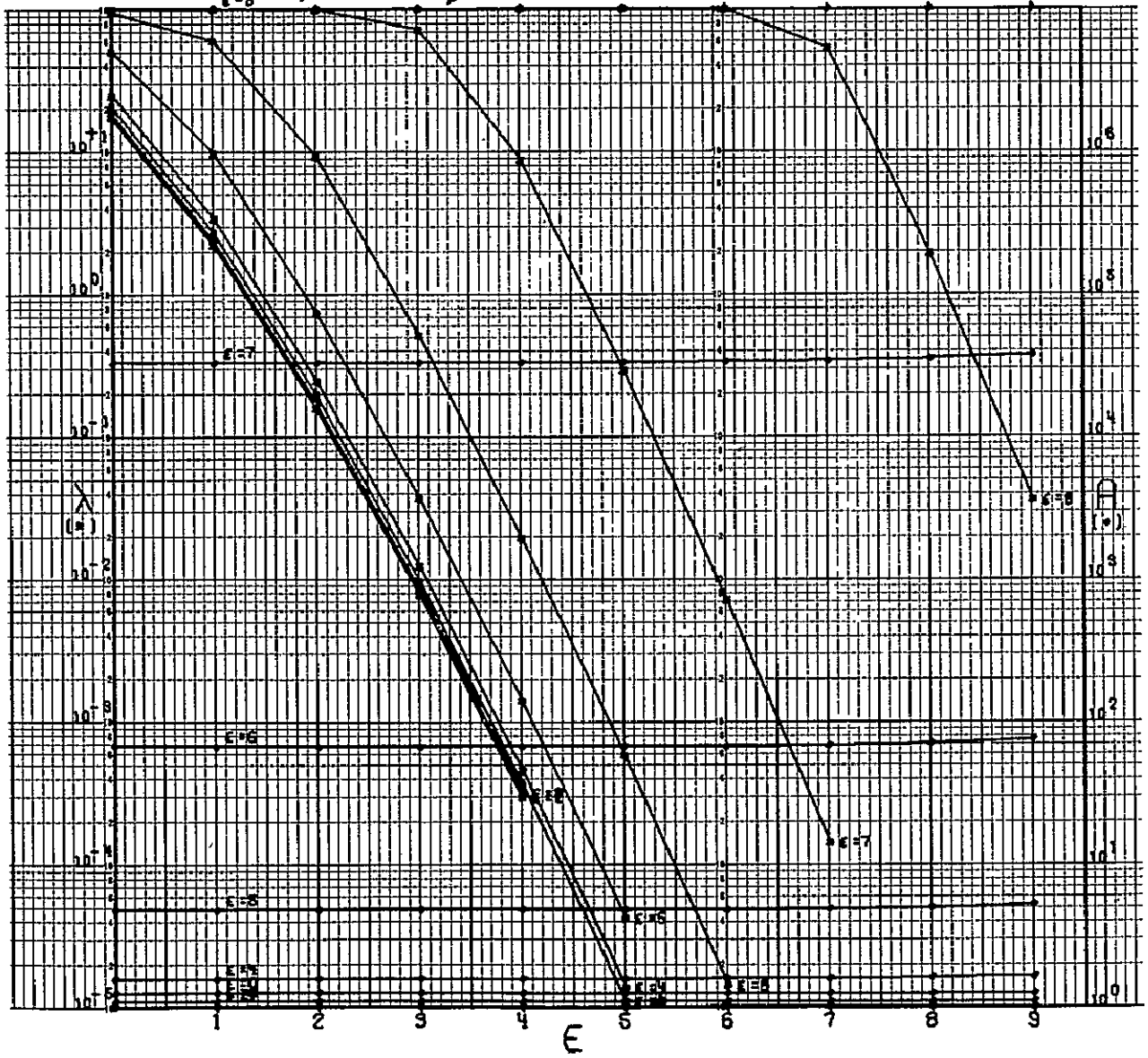
N = 23

CODE 111101011100110100000000
GSFC STANDARD

$b = 0.0100$

$\beta = 200$

(DRAWN BY AOPB, CODE 542, GSFC)



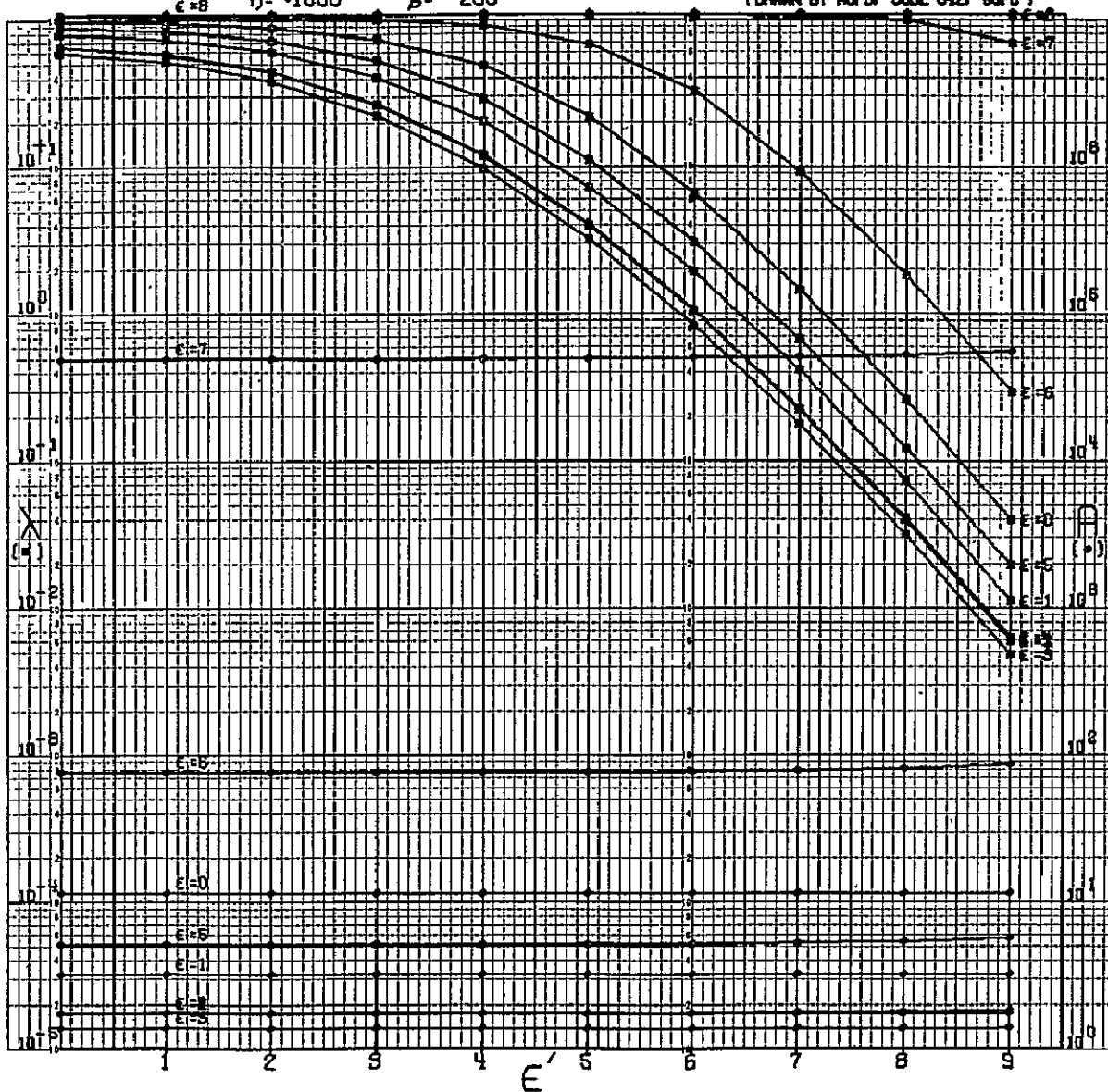
N=29

CODE 11110101110011010000000
GSFC STANDARD

$\eta = +1000$

$\beta = 200$

(ORIGIN BY AFPL CODE 542, GSFC)



N=23

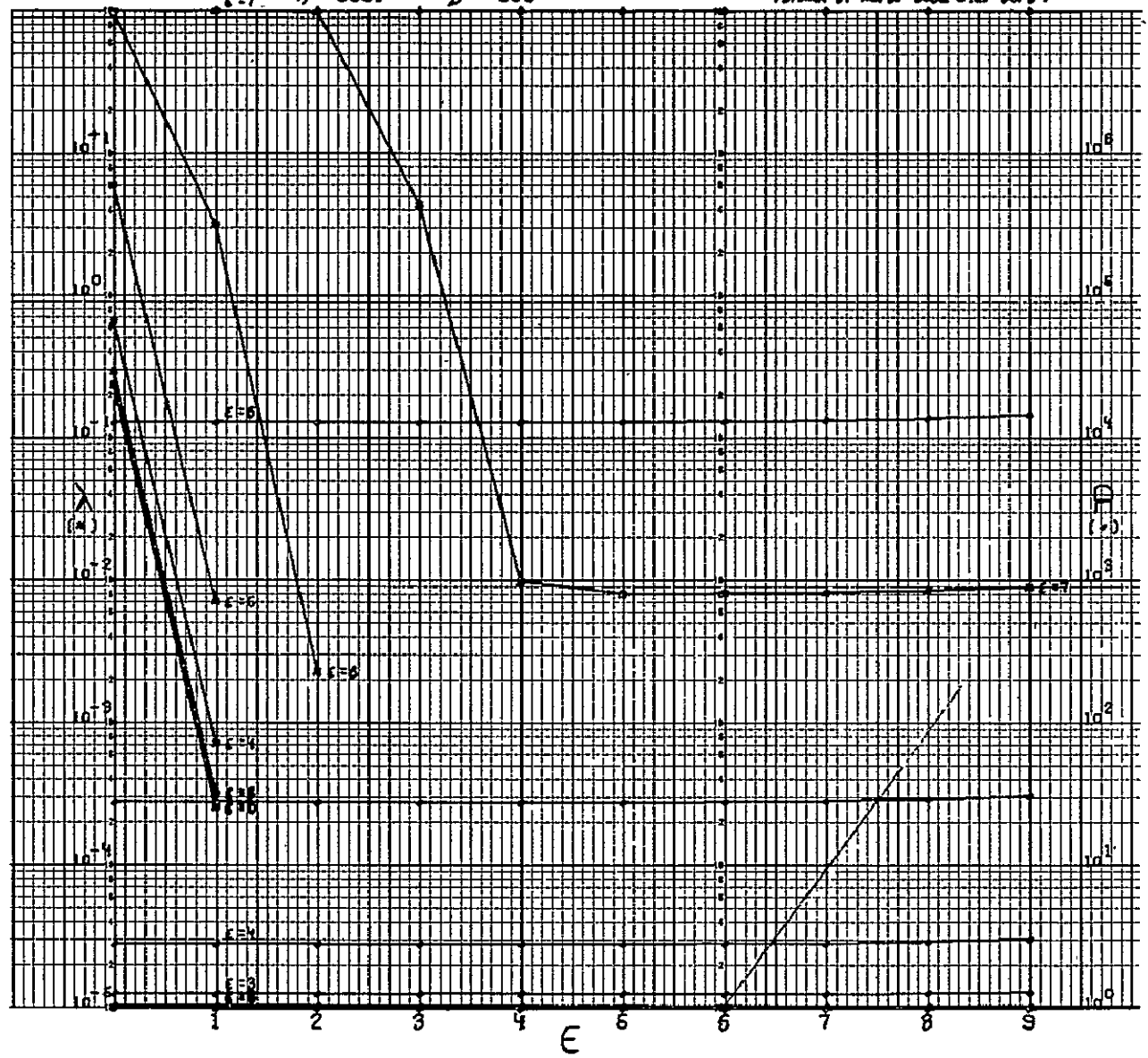
CODE 11110101110011010000000

SEFC STANDARD

$\epsilon = 7$ $h = 0.0001$

$\beta = 500$

(DRAWN BY ADP. CODE 542. SEFC)



N = 23

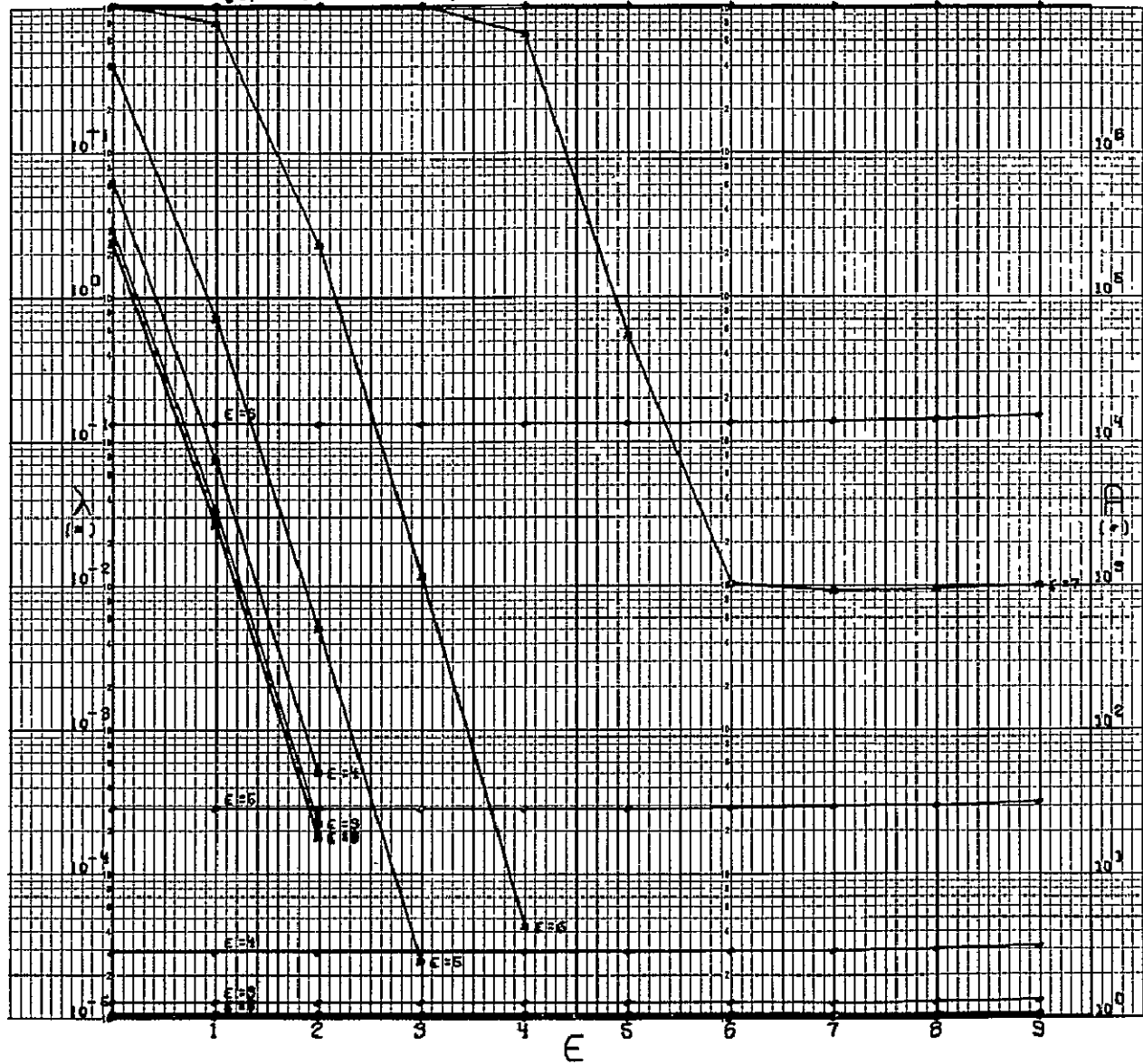
CODE 11110101110011010000000

GSFC STANDARD

$\epsilon = 7$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROMB. CODE 842, GSFC)



N = 23

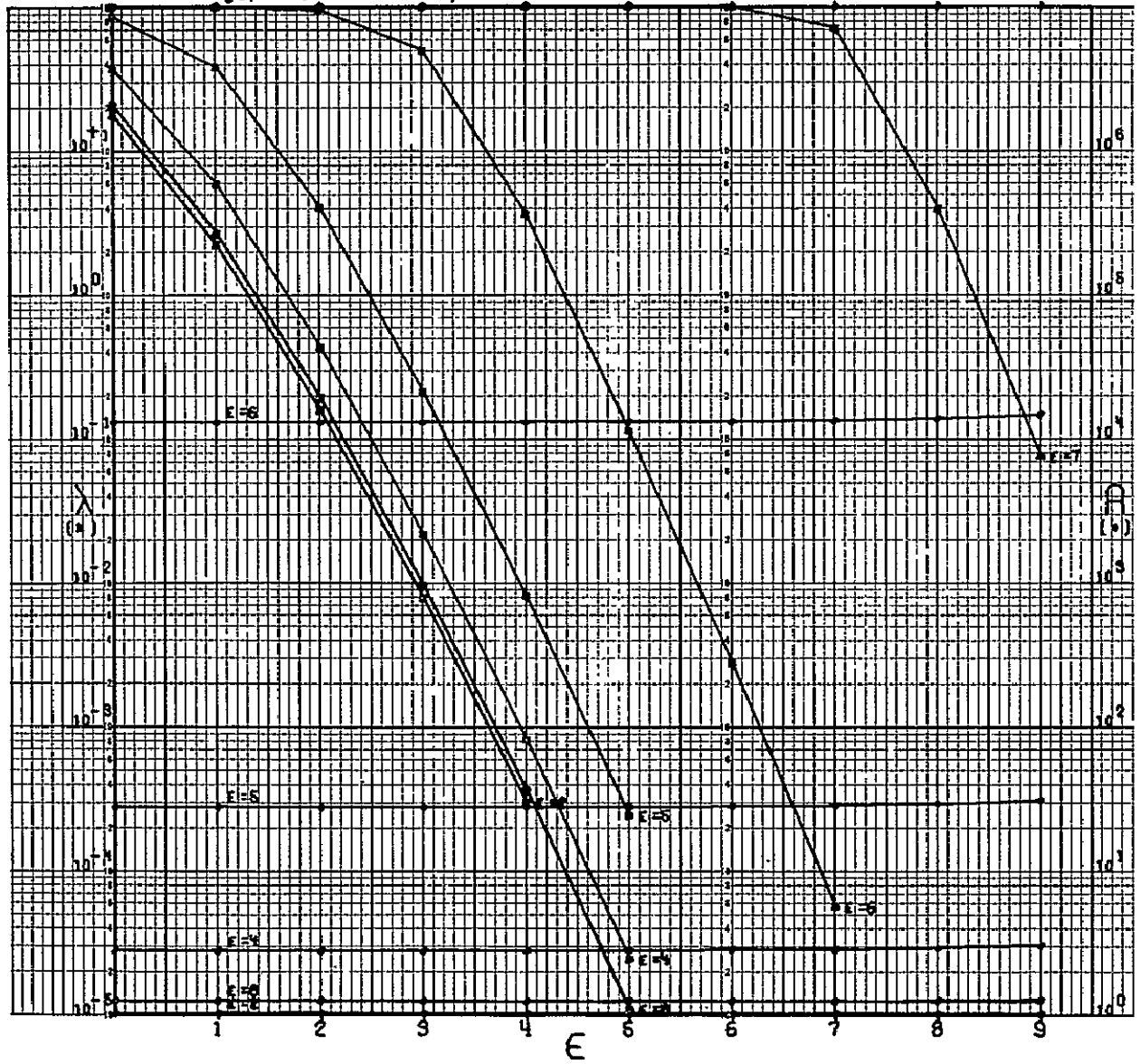
CODE 31110101110011010000000

GSFC STANDARD

$\epsilon = 7$ $h = .0100$

$\beta = 500$

(DRAWN BY ACPG. CODE 542. GSFC)



N=29

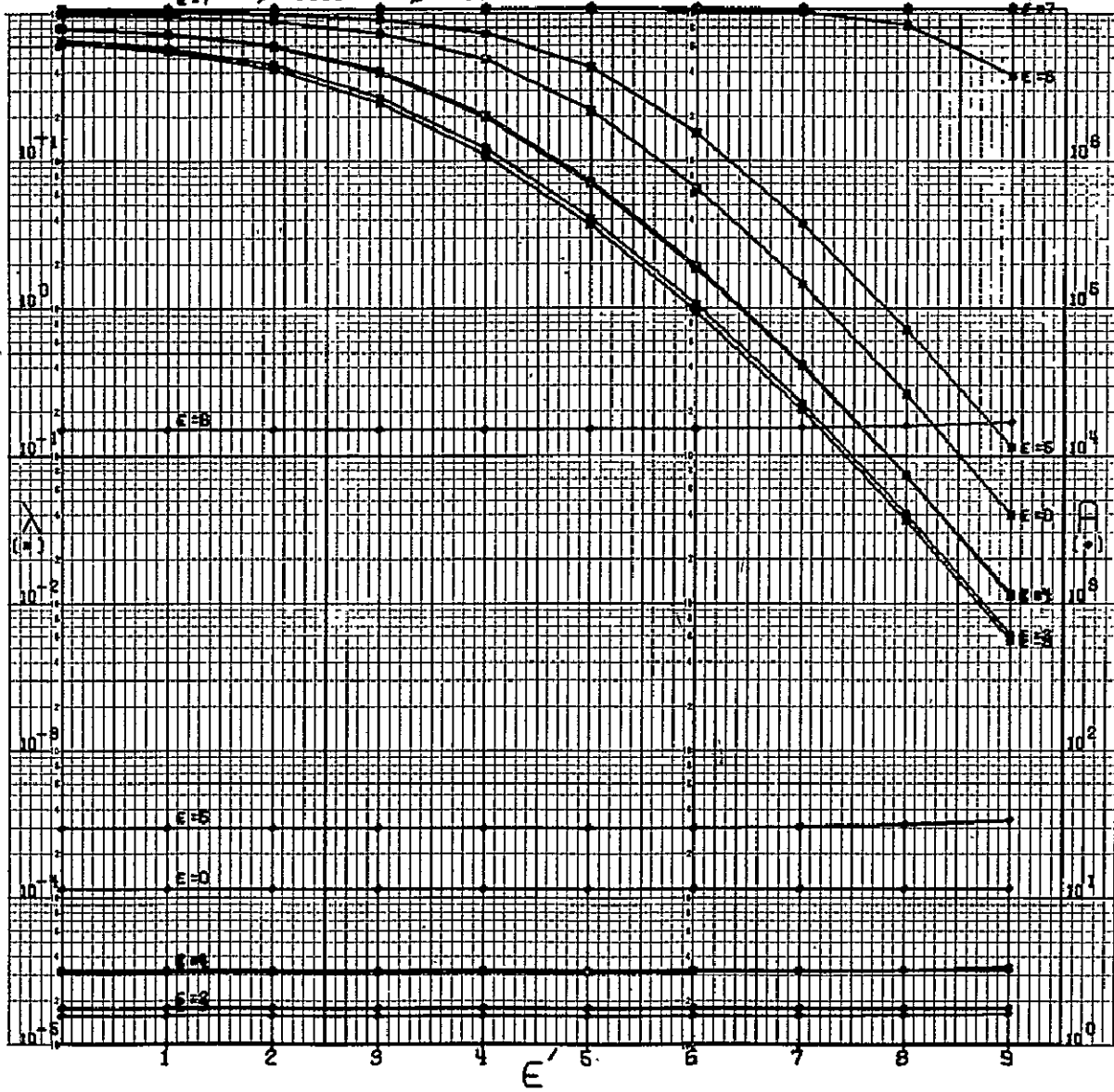
CODE 11110101110011010000000

GEFC STANDARD

$\epsilon = 7$ $\eta = 1000$

$\beta = 500$

(DRAWN BY ROPL. CODE 512. GEFC)



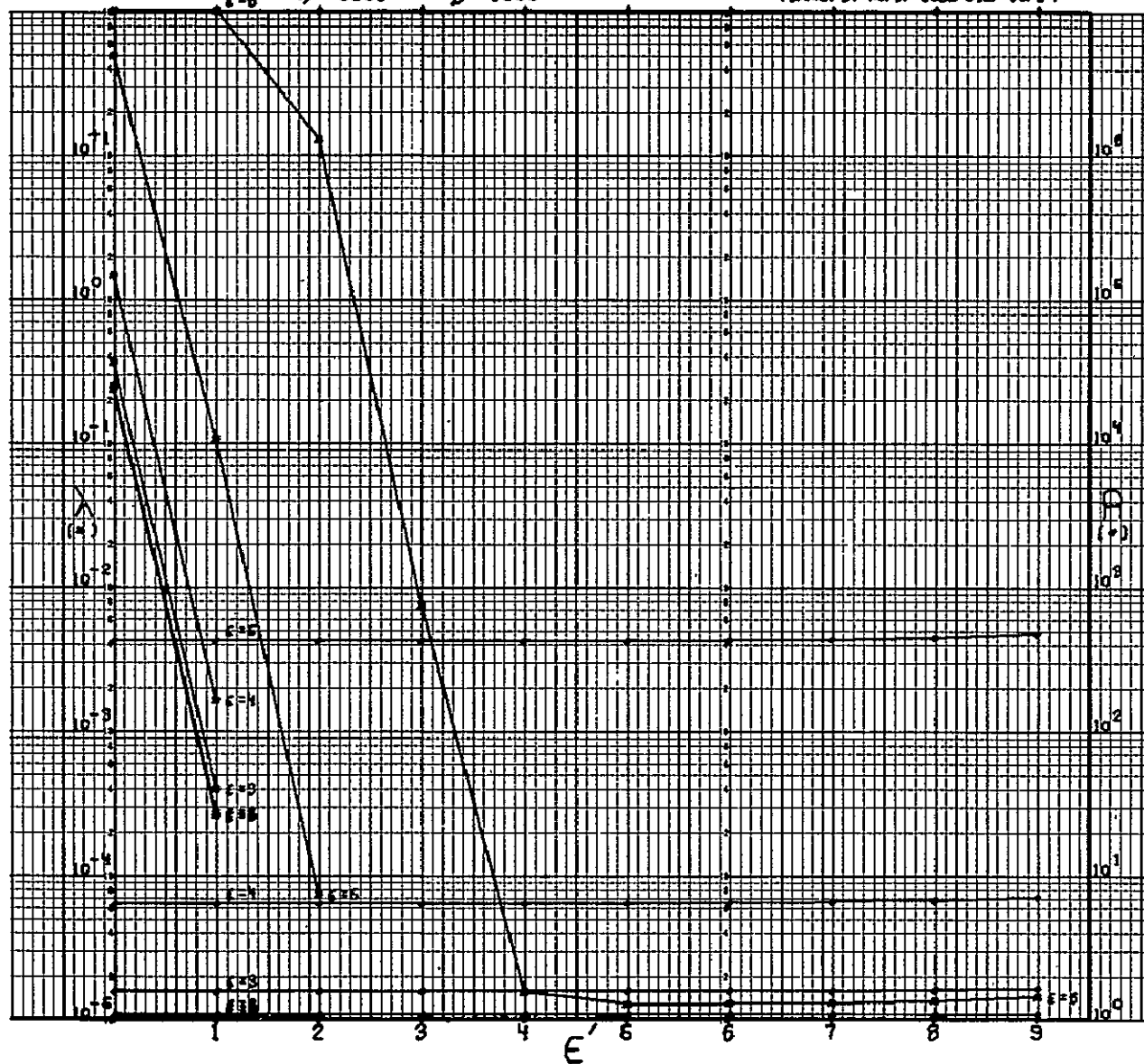
N=23

CODE 111101011100110100000000
SAFE STANDARD

$\gamma = 0.0001$

$\beta = 1000$

(DRAWN BY ROPS. CODE 612, 66FC)



N = 23

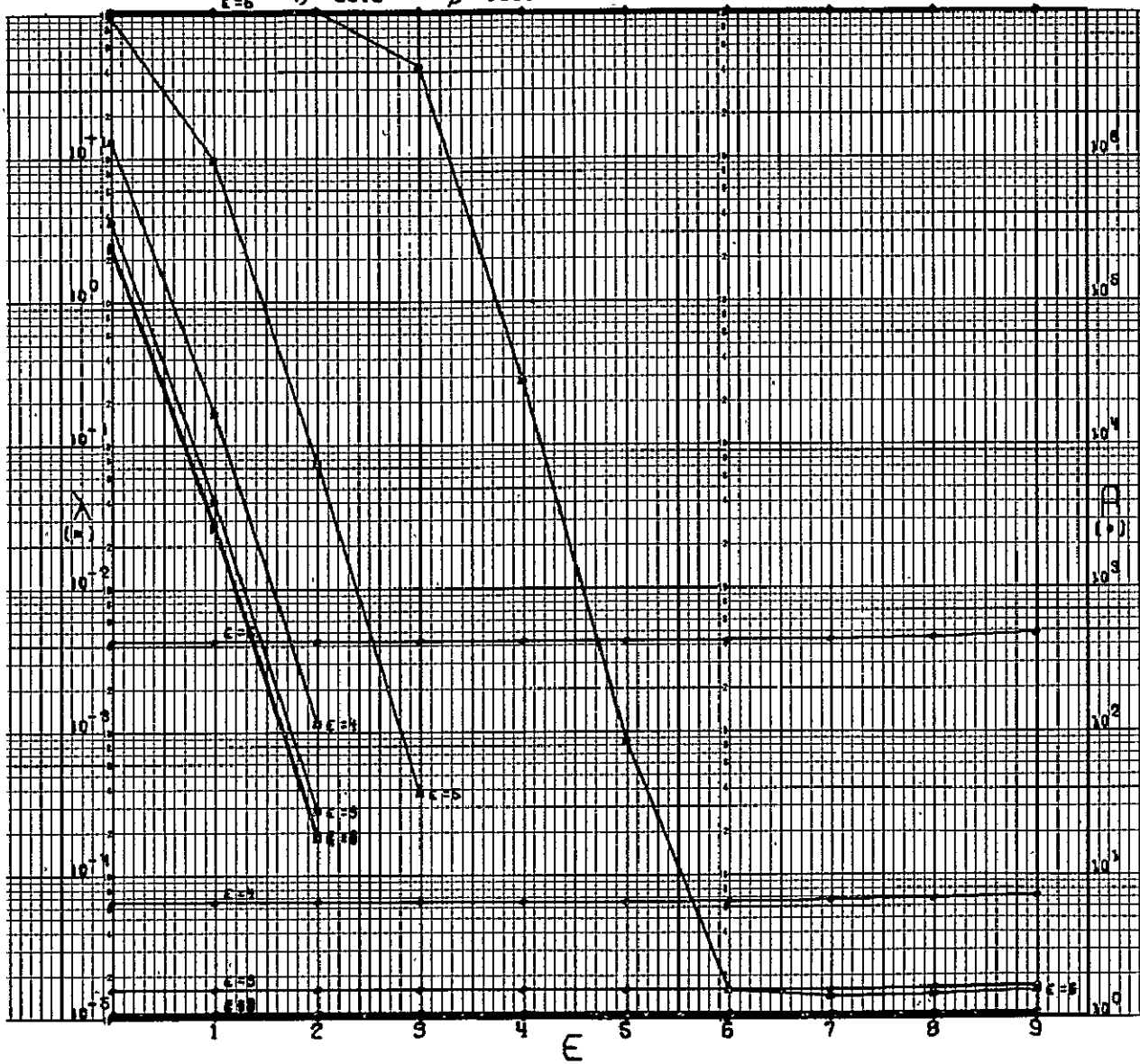
C8DE 11110101110011010000000

GSFC STANDARD

$\epsilon = 6$ $b = .0010$

$\beta = 1000$

(DRAWN BY ROPB, C8DE 592, GSFC)



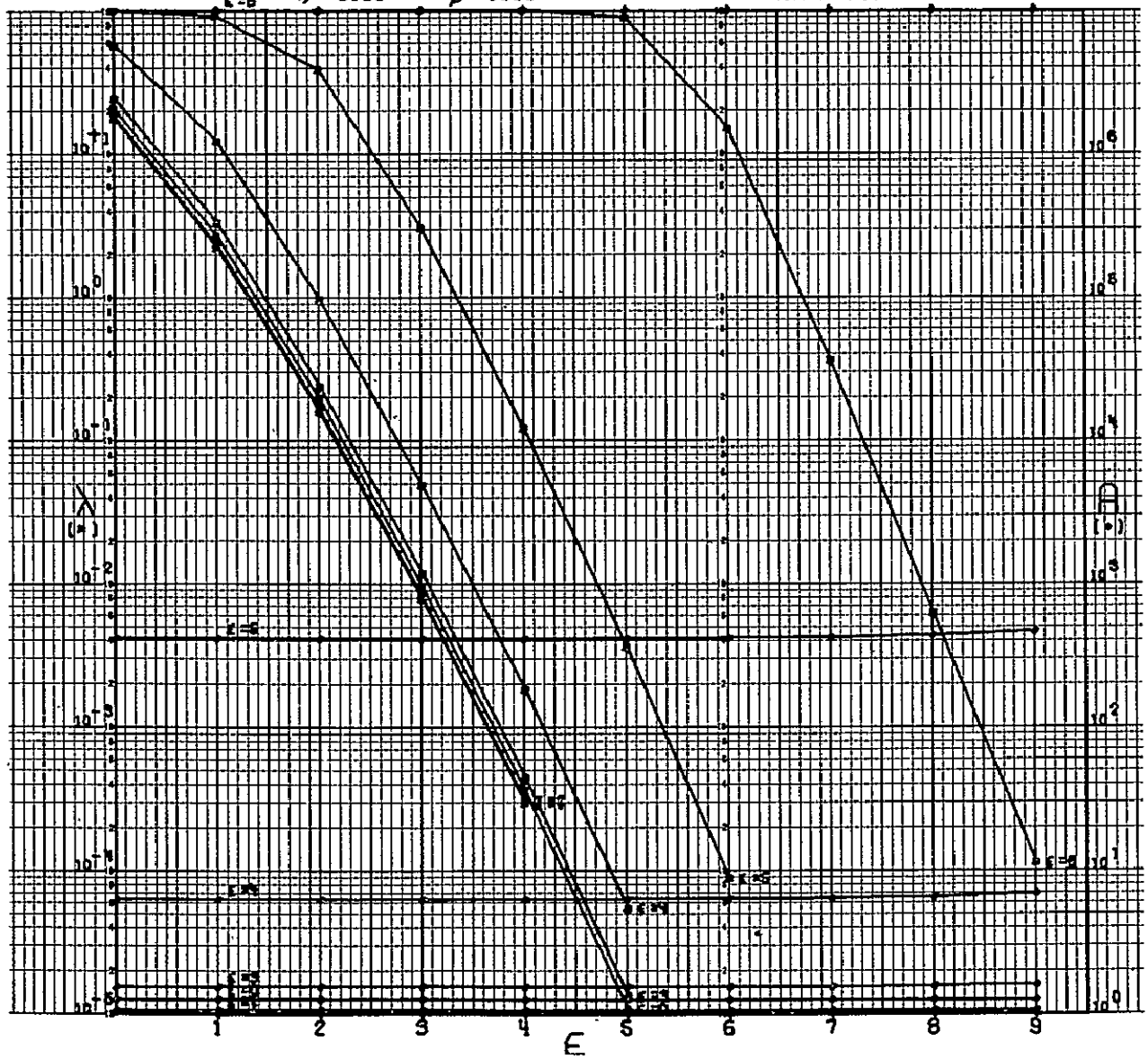
N = 23

CODE 111101011100110100000000
GSFC STANDARD

$\epsilon = 6$ $h = 0.100$

$\beta = 1000$

(DRAWN BY AOPB. CODE 512. GSFC)



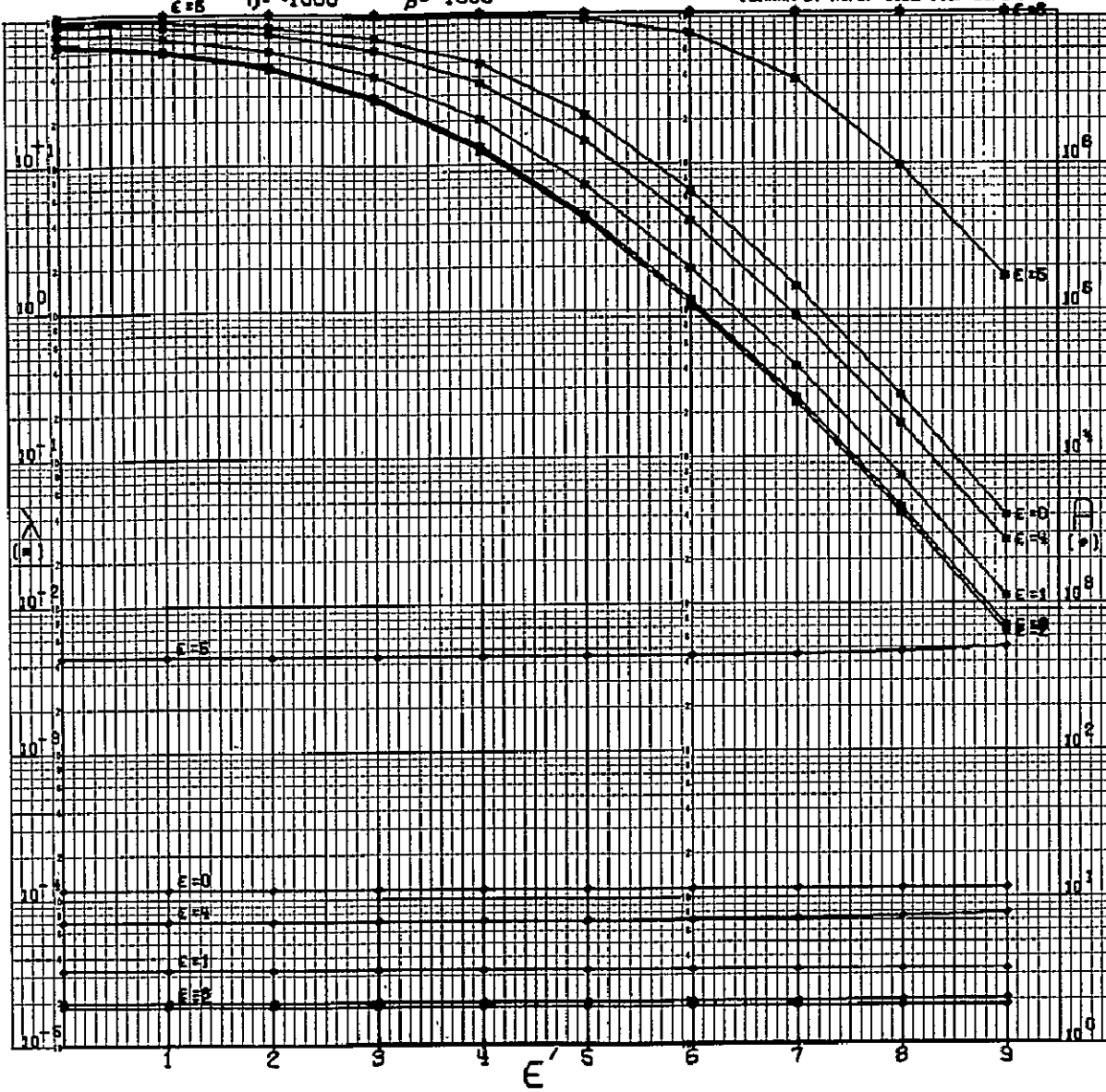
N=23

CODE 11110101110011010000000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPE, CODE 542, GSFC)



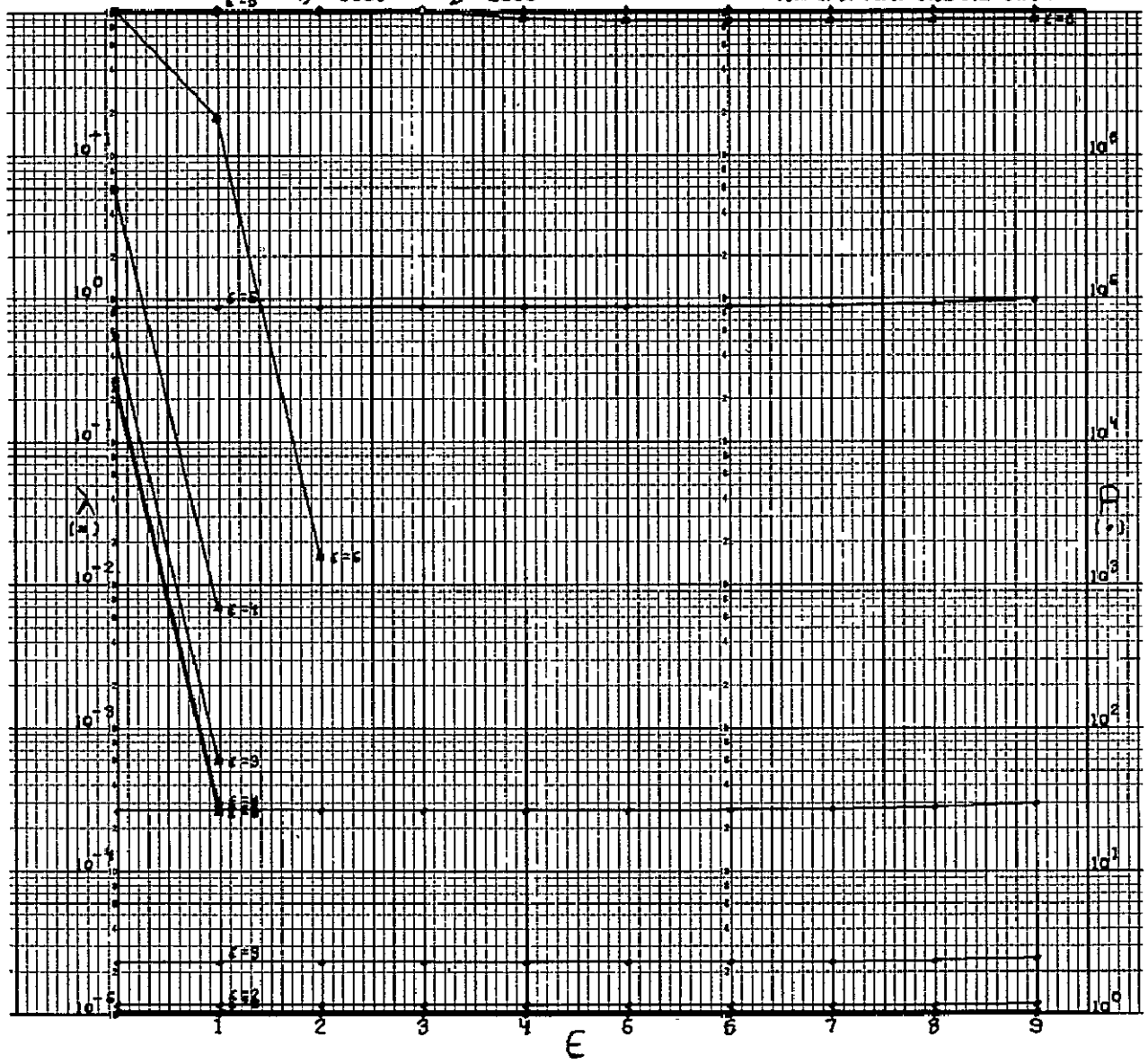
N= 23

CODE 111101011100110100000000
SAFE STANDARD

$\epsilon = 5$ $\eta = 0.0001$

$\beta = 2000$

1 DRAWN BY ROPE. CODE 542. SAFE 1



N=23

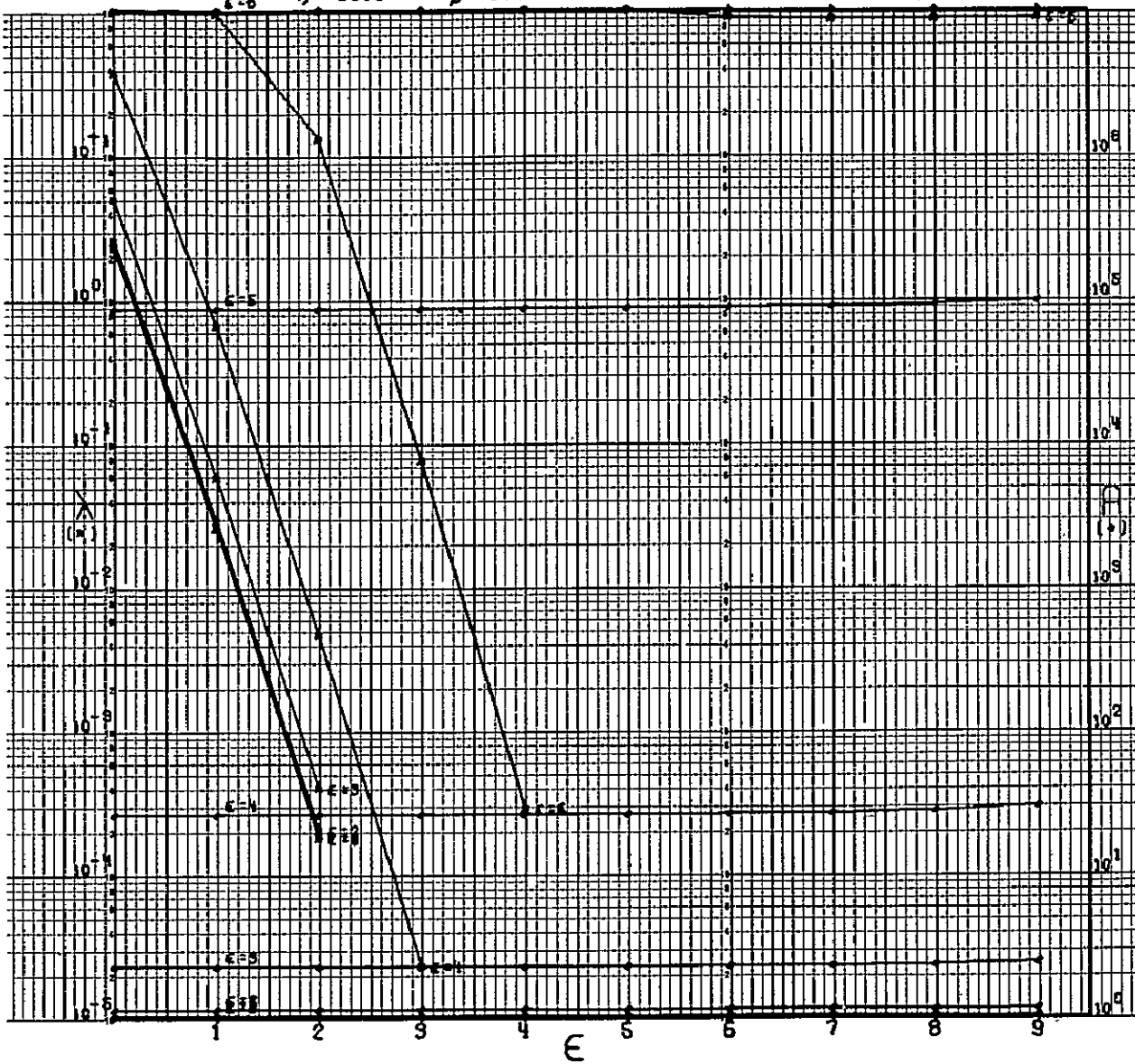
CODE 11110101110011010000000

GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY NORD. CODE 512, GSFC)



CODE 1111010111001101000000

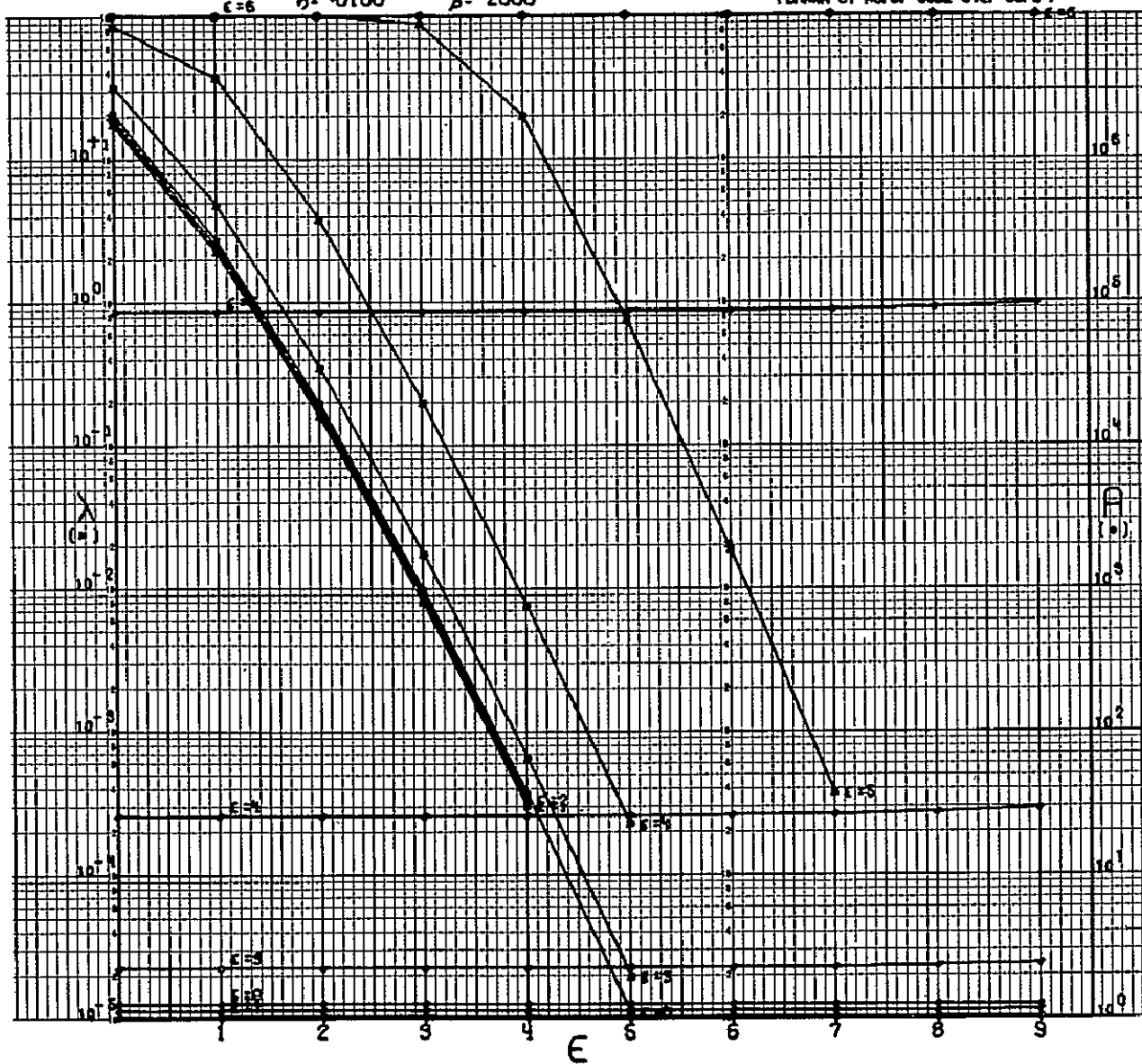
GEFC STANDARD

$\epsilon = 6$

5: 0100

$\beta = 2000$

(DRAWN BY AOPB. CODE 572. GSFC)



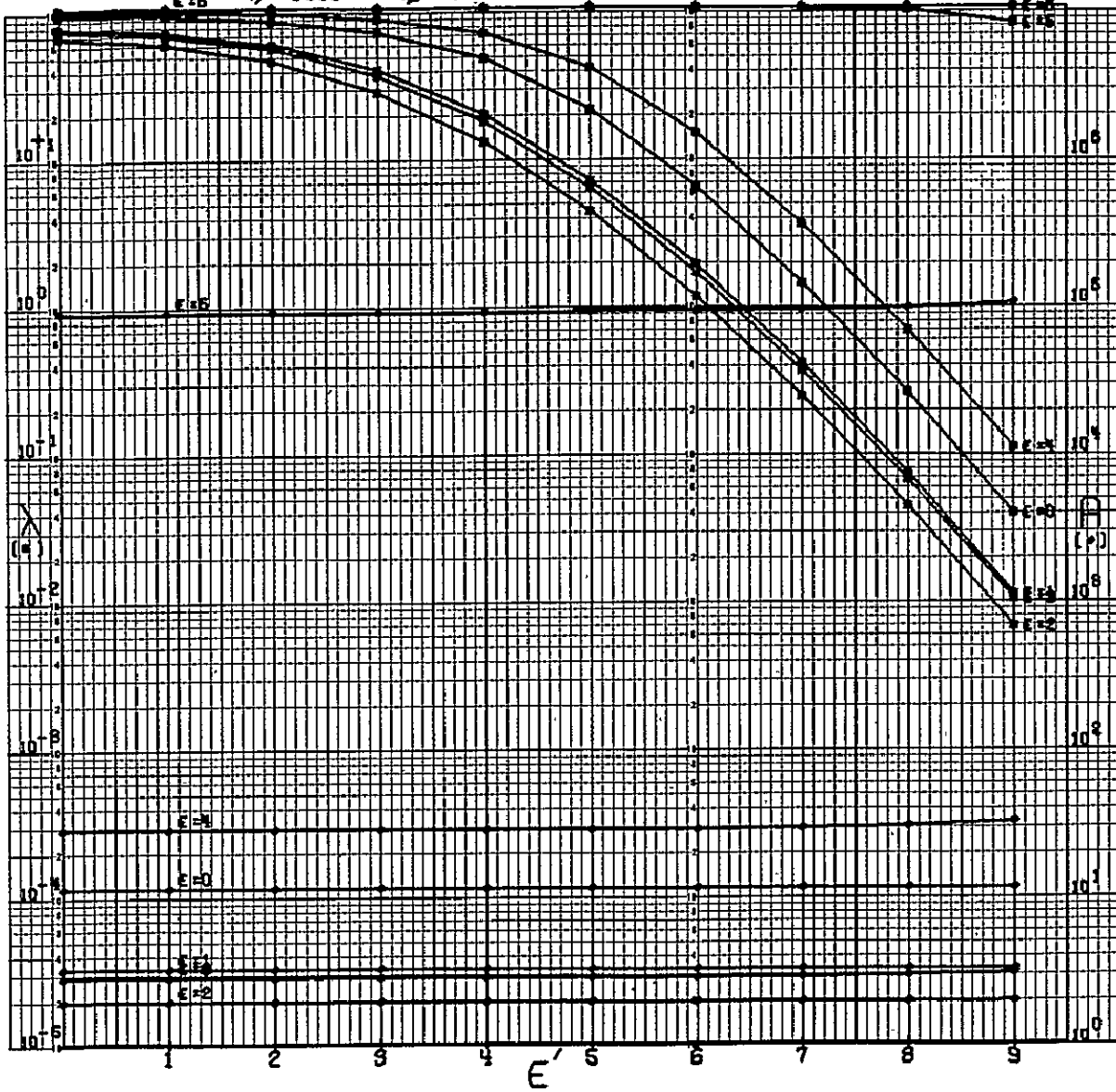
N=23

CODE 11110101110011010000000
GSFC STANDARD

$h = 1000$

$\beta = 2000$

(DRAWN BY RQFB, CODE 612, GSFC)



A-530

X

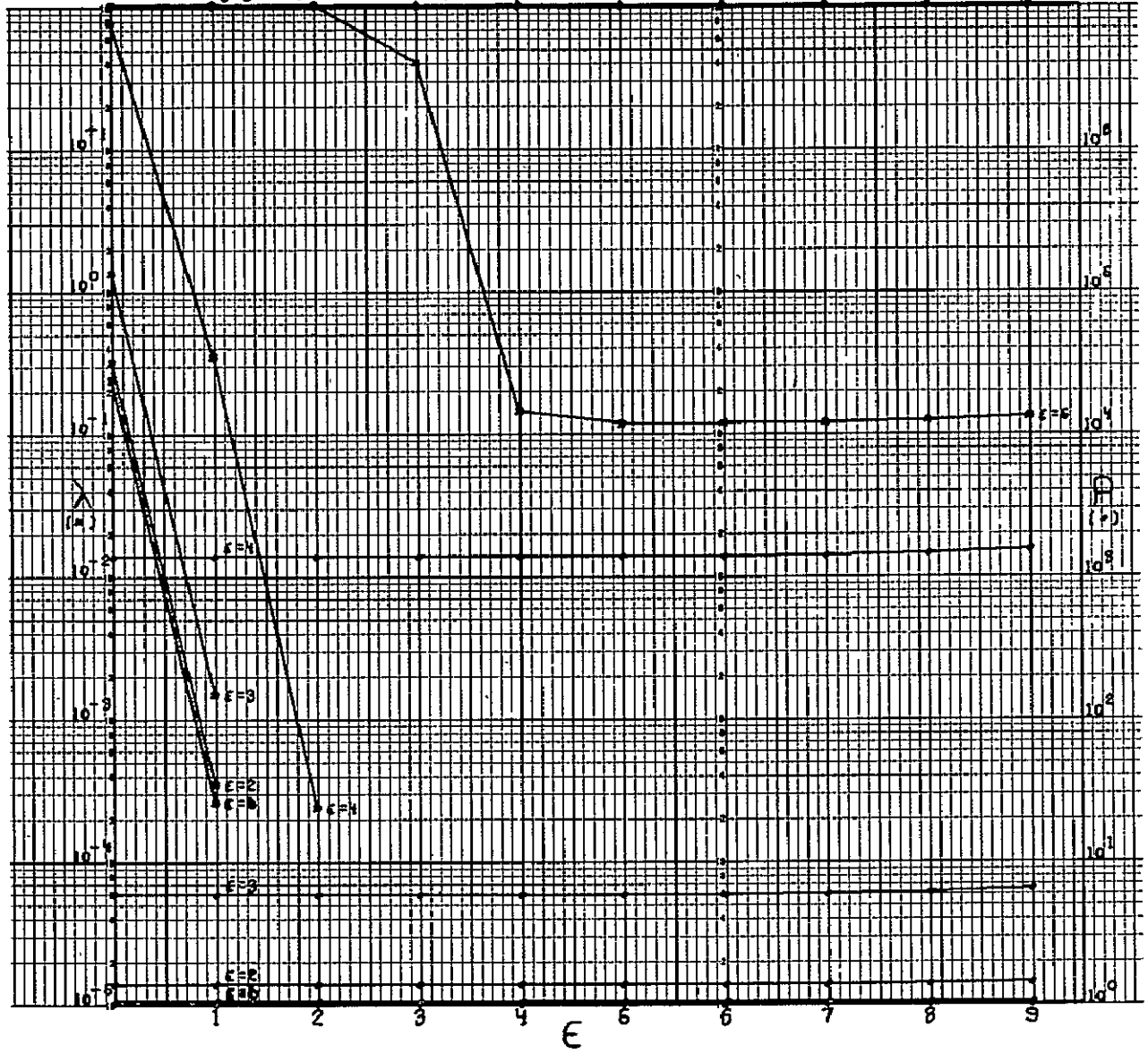
N=23

CODE 1111010111001101000000
SEFC STANDARD

$\epsilon = 5$ $h = 0.0001$

$\Delta = 5000$

(DRAWN BY ROFS. CODE 512, SEFC)



N=23

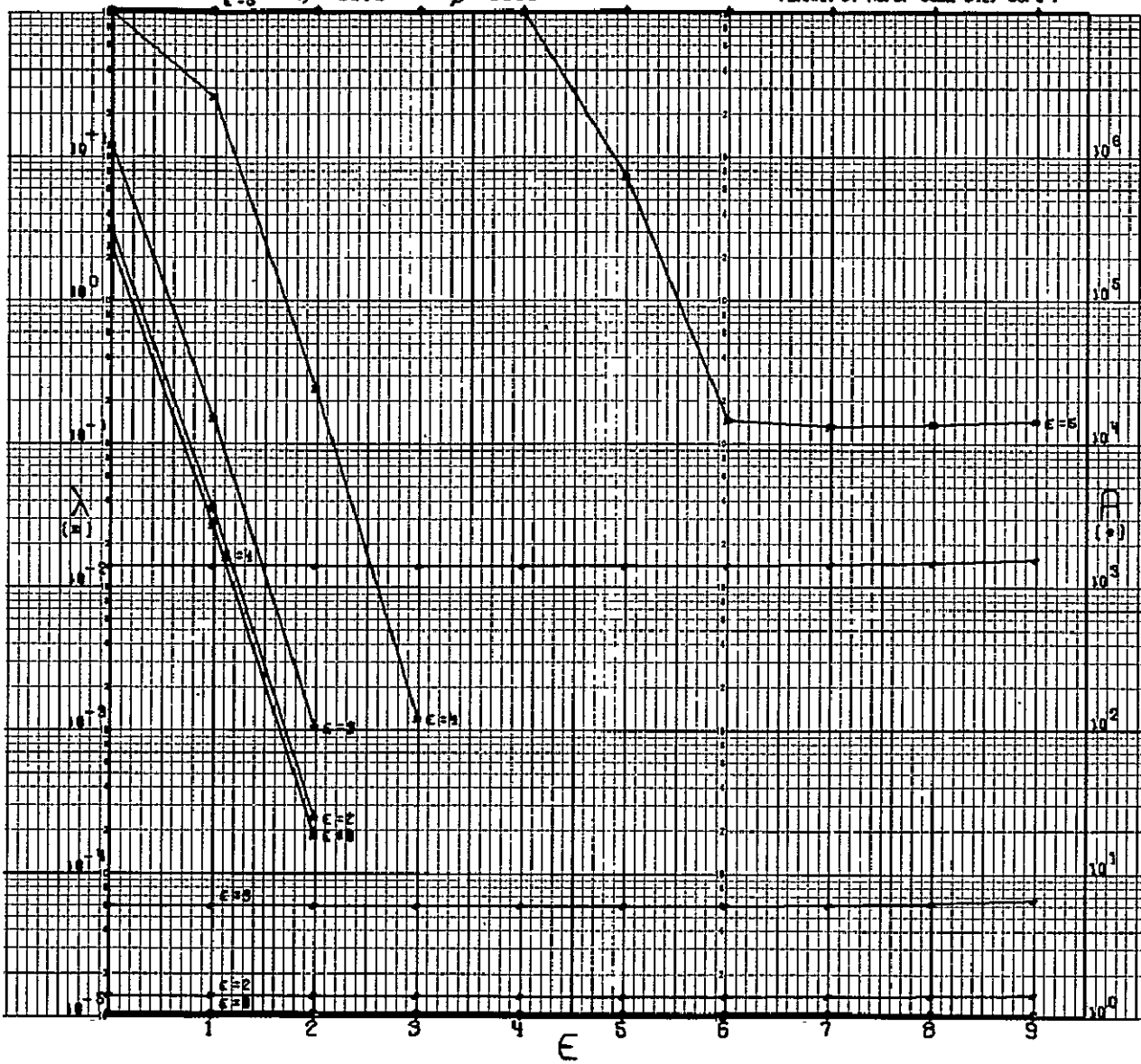
CODE 111101011100110100000000

GSFC STANDARD

$h = .0010$

$\beta = 5000$

(DRAWN BY ROPB. CODE 542. GSFC)



N=23

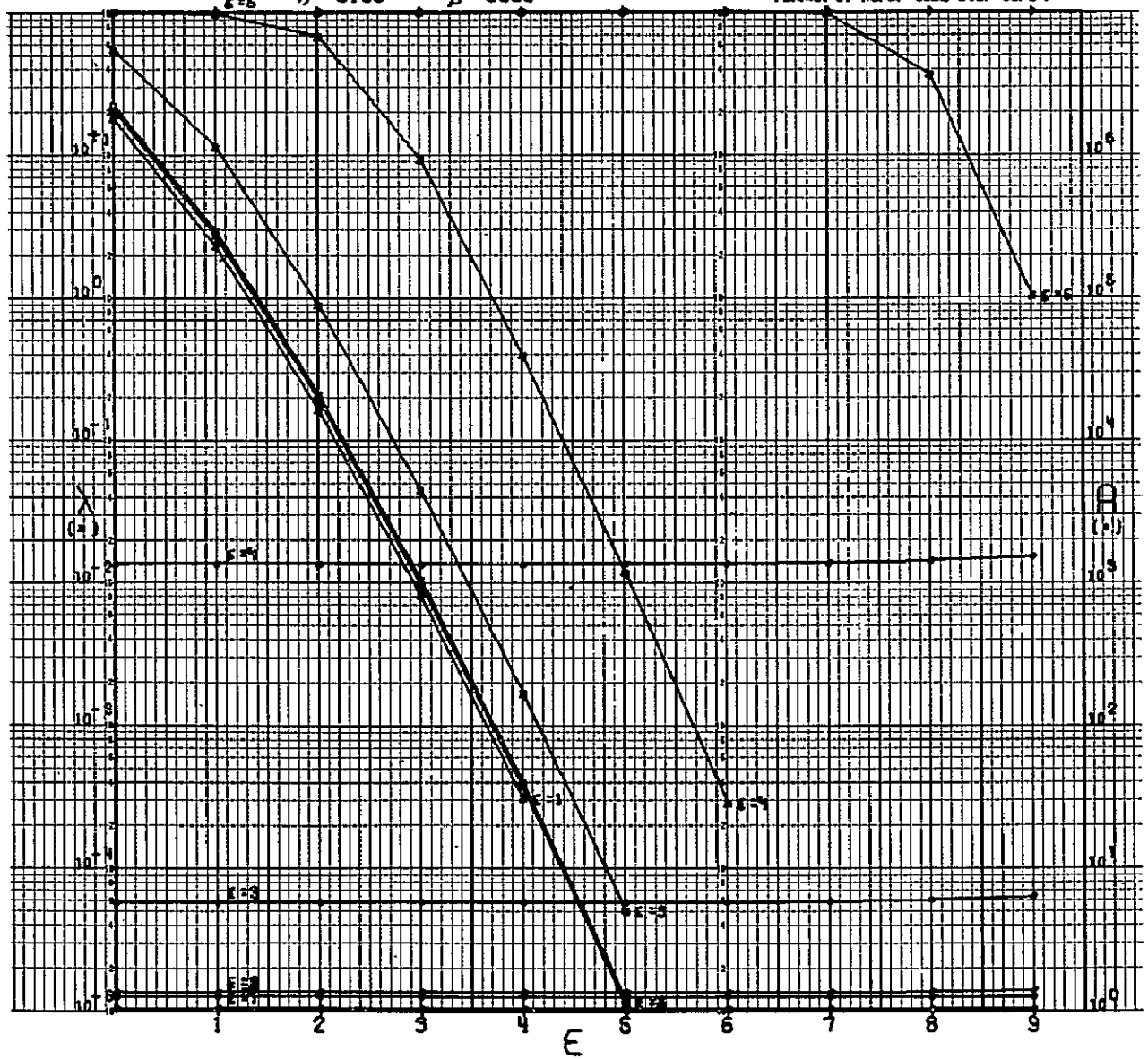
CODE 11110101110011010000000

GSFC STANDARD

$h = .0100$

$\beta = 5000$

(DRAWN BY AOPS, CODE 512, GSFC)



N=23

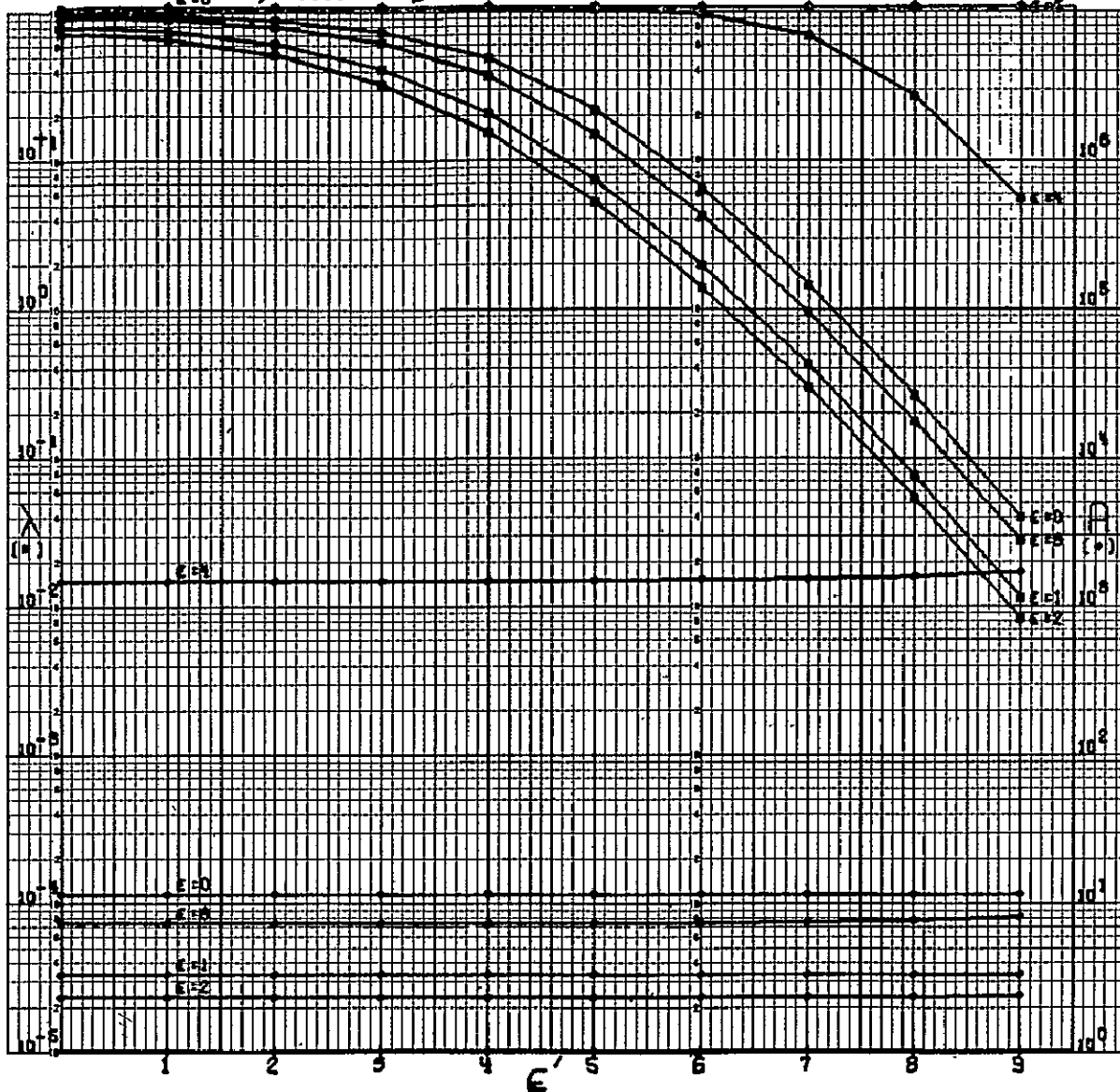
CODE 11110101110011010000000

GEFC STANDARD

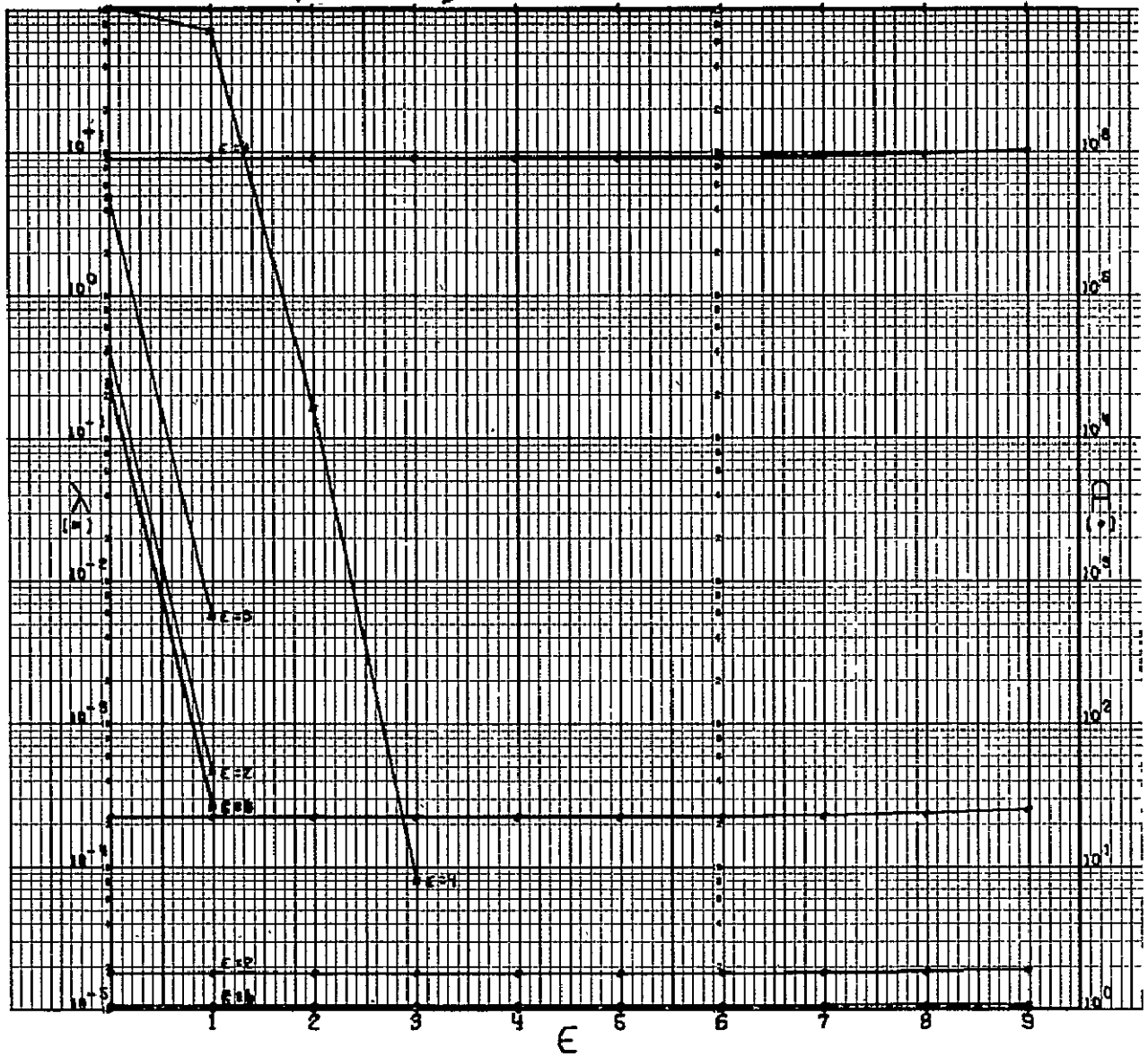
$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROSE, CODE 512, GEFC)



N = 23 CODE 111101011100110100000000
 DEFC STANDARD $\epsilon_1 = .0001$ $\beta = 10000$ (BANKIN ST. ROPE. CODE 512. 567C)



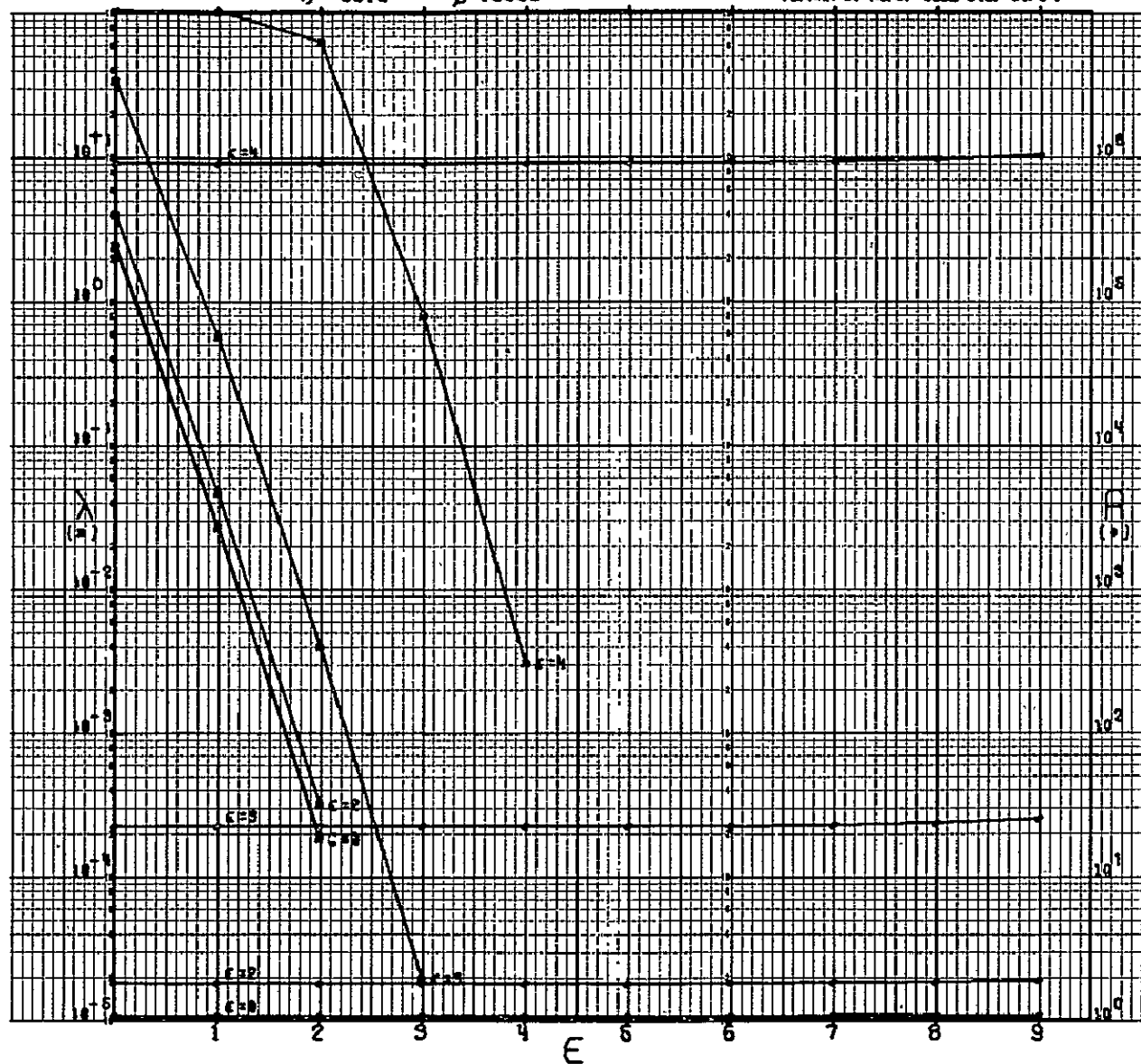
N° 23

CODE 11110101110011010000000
GFC STANDARD

$h = 0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 512, GFC)



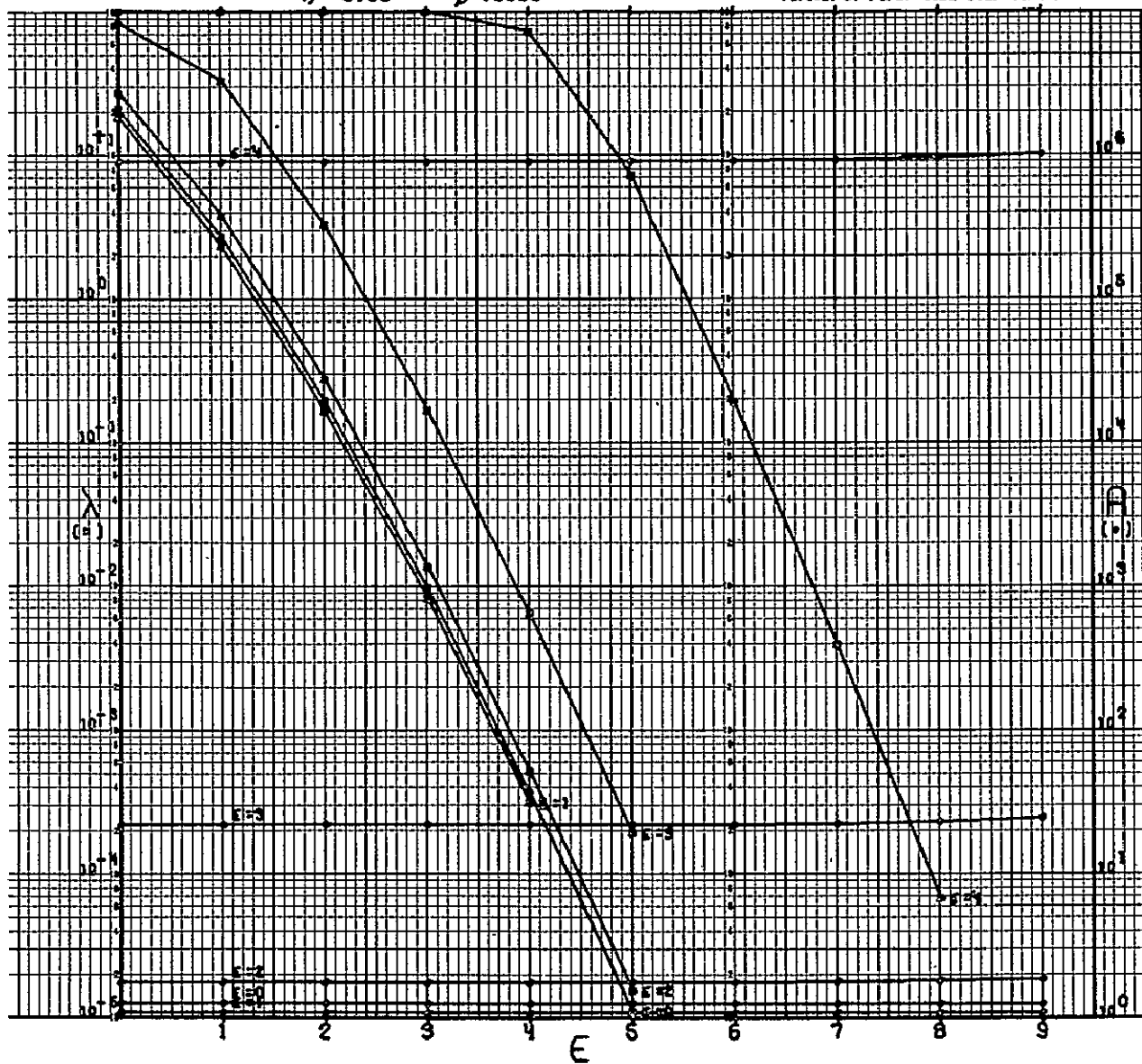
N° 23

CODE 11110101110011010000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 10000$

(DRAWN BY AOPB. CODE 512. GSFC)



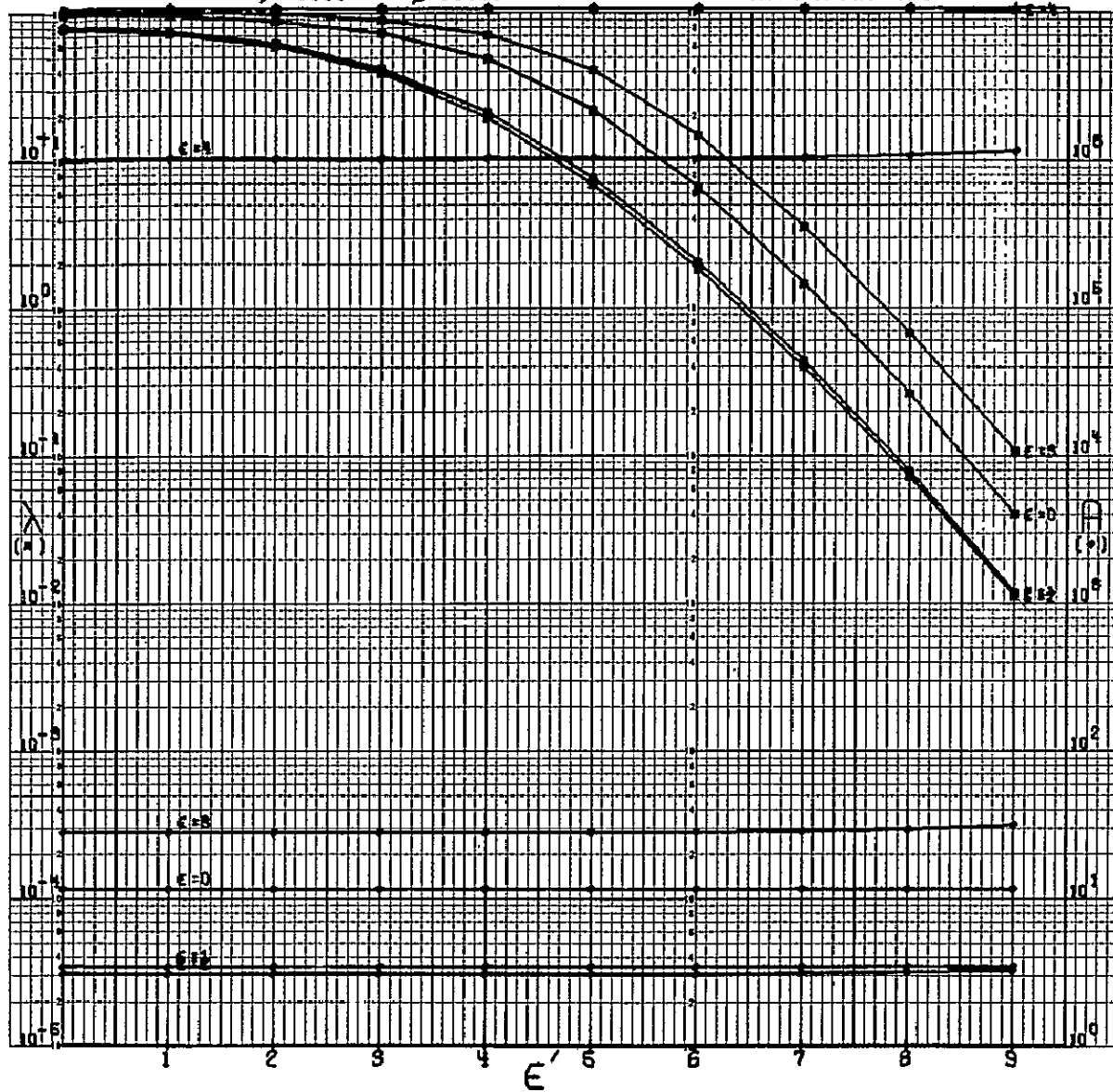
N° 29

CODE 11110101110011010000000
GDFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPL. CODE 512. GDFC)



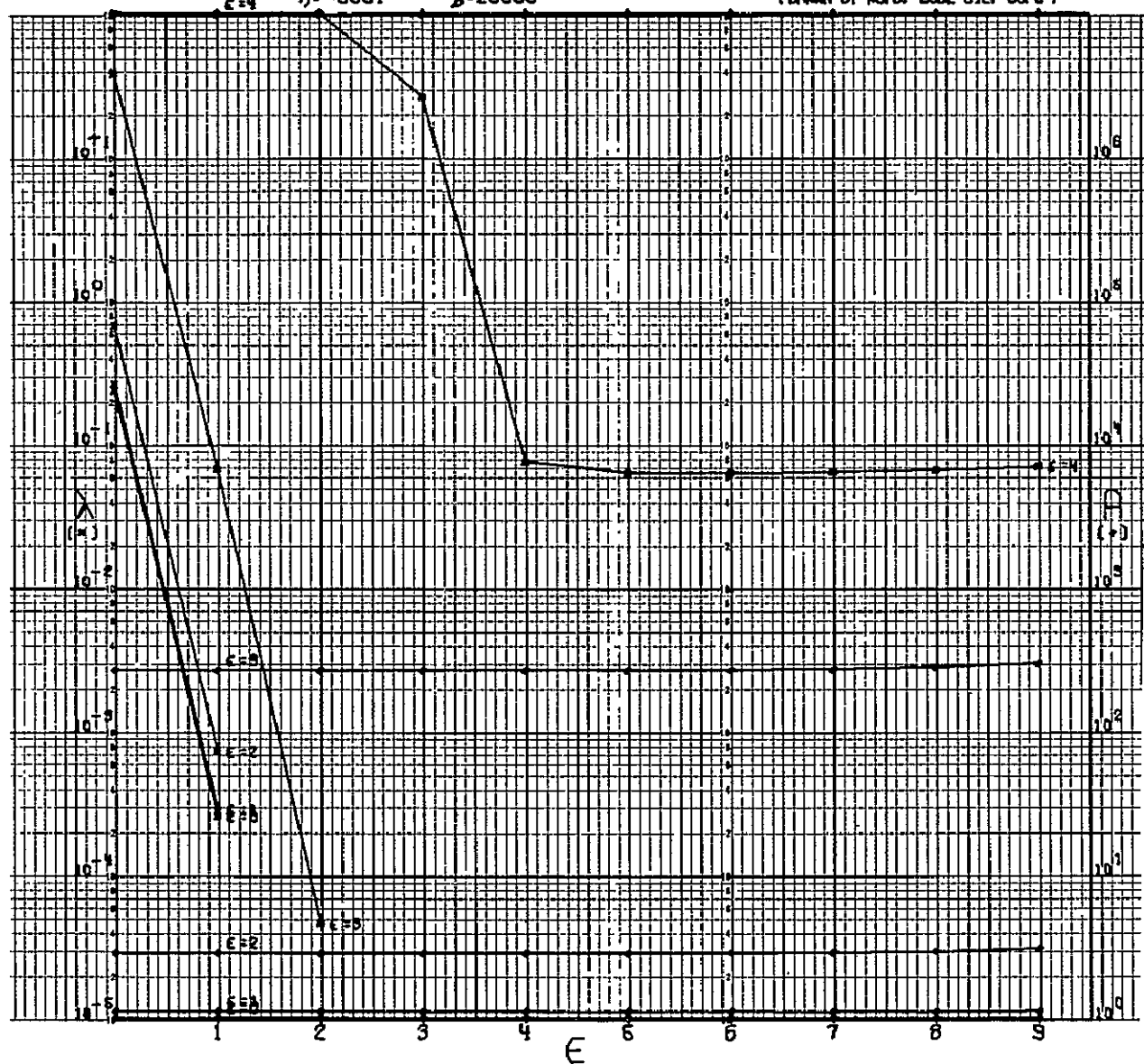
CODE 11110101110011010000000

55FC STAMPED

 $\eta = .0001$

$\beta = 20000$

(DRAWN BY POPE. CODE 512. GSFC)



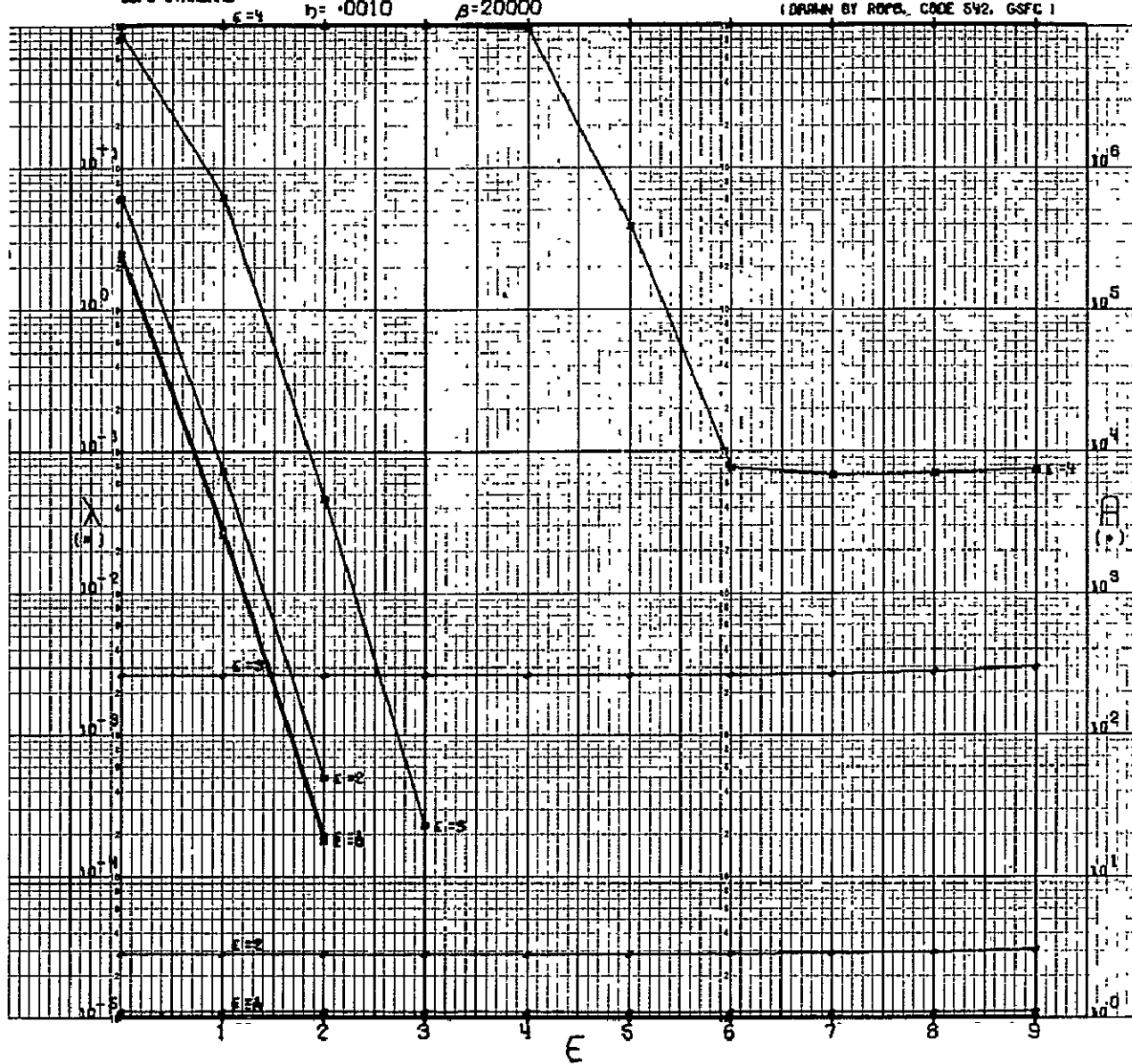
N=23

CODE 11110101110011010000000
GSFC STANDARD

$h = .0010$

$\beta = 20000$

(DRAWN BY ROPS, CODE 542, GSFC)



A-540

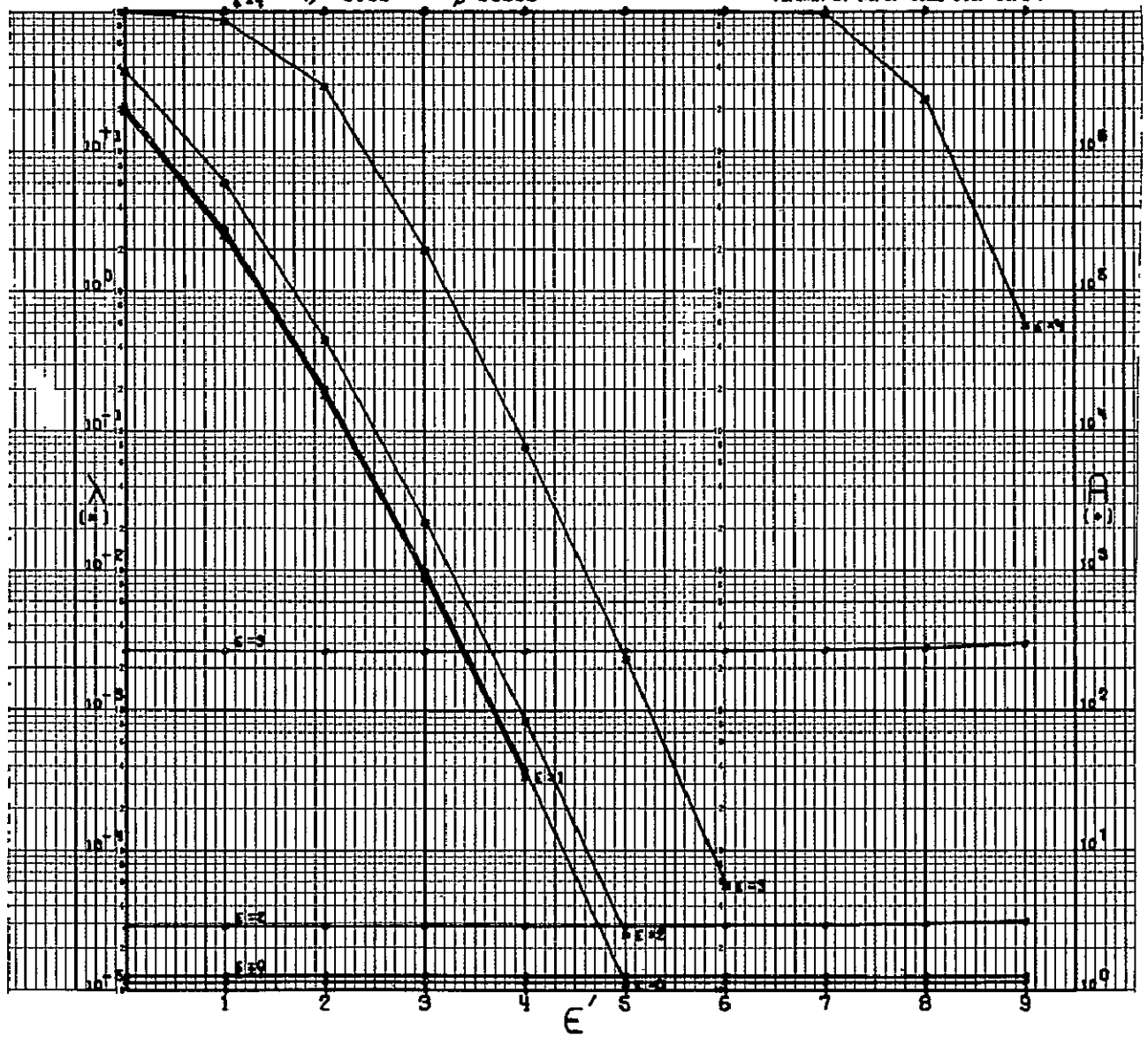
N = 23

CASE 1111010110011010000000
GFC STANDARD

$\gamma = 0.100$

$\beta = 20000$

(ORDIAN ST AOPS. CASE 512. GFC)



N = 23

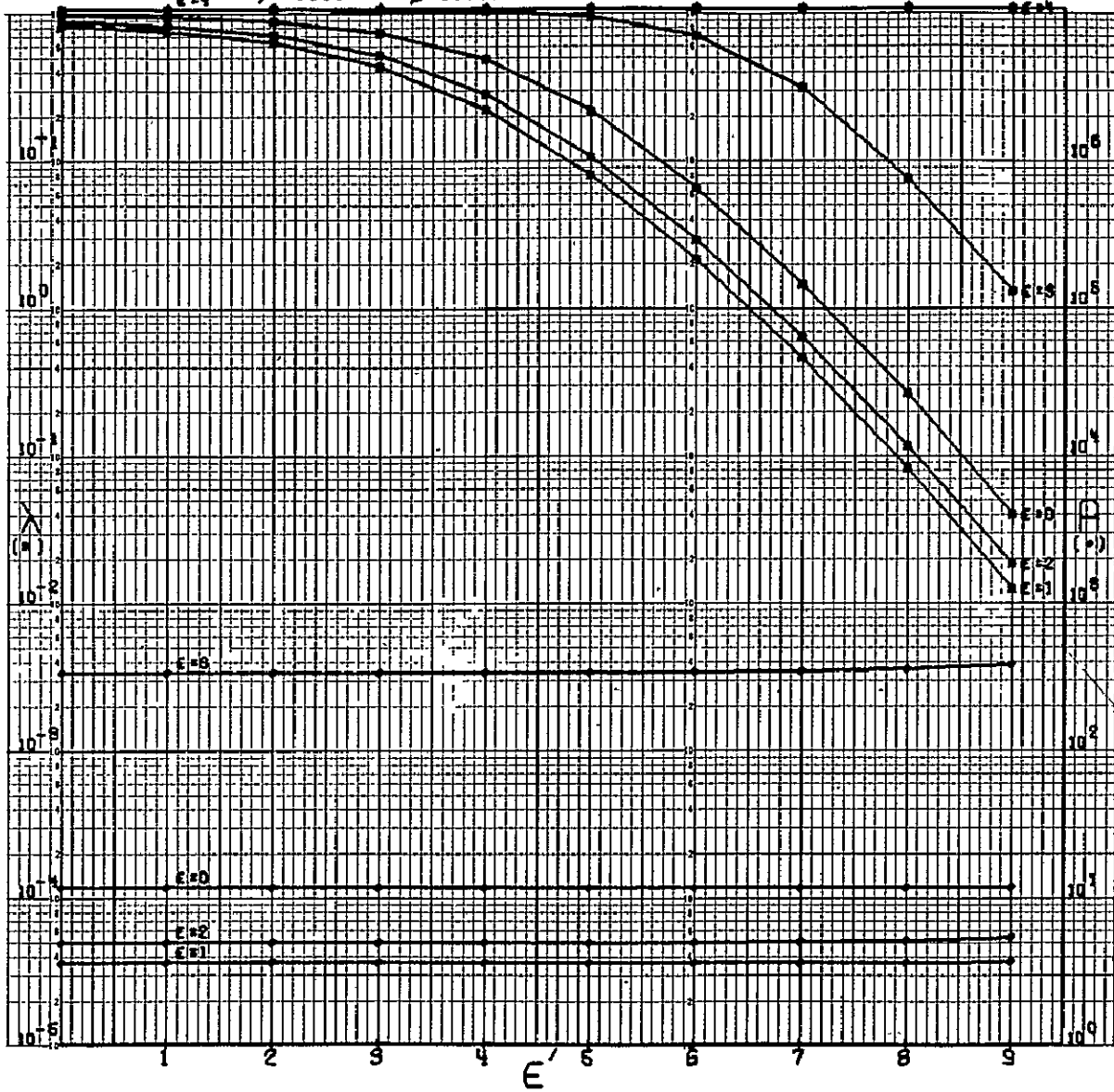
CODE 11110101110011010000000

GEFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROPE, CODE 542, GEFC)



A-542

$$N = 24$$

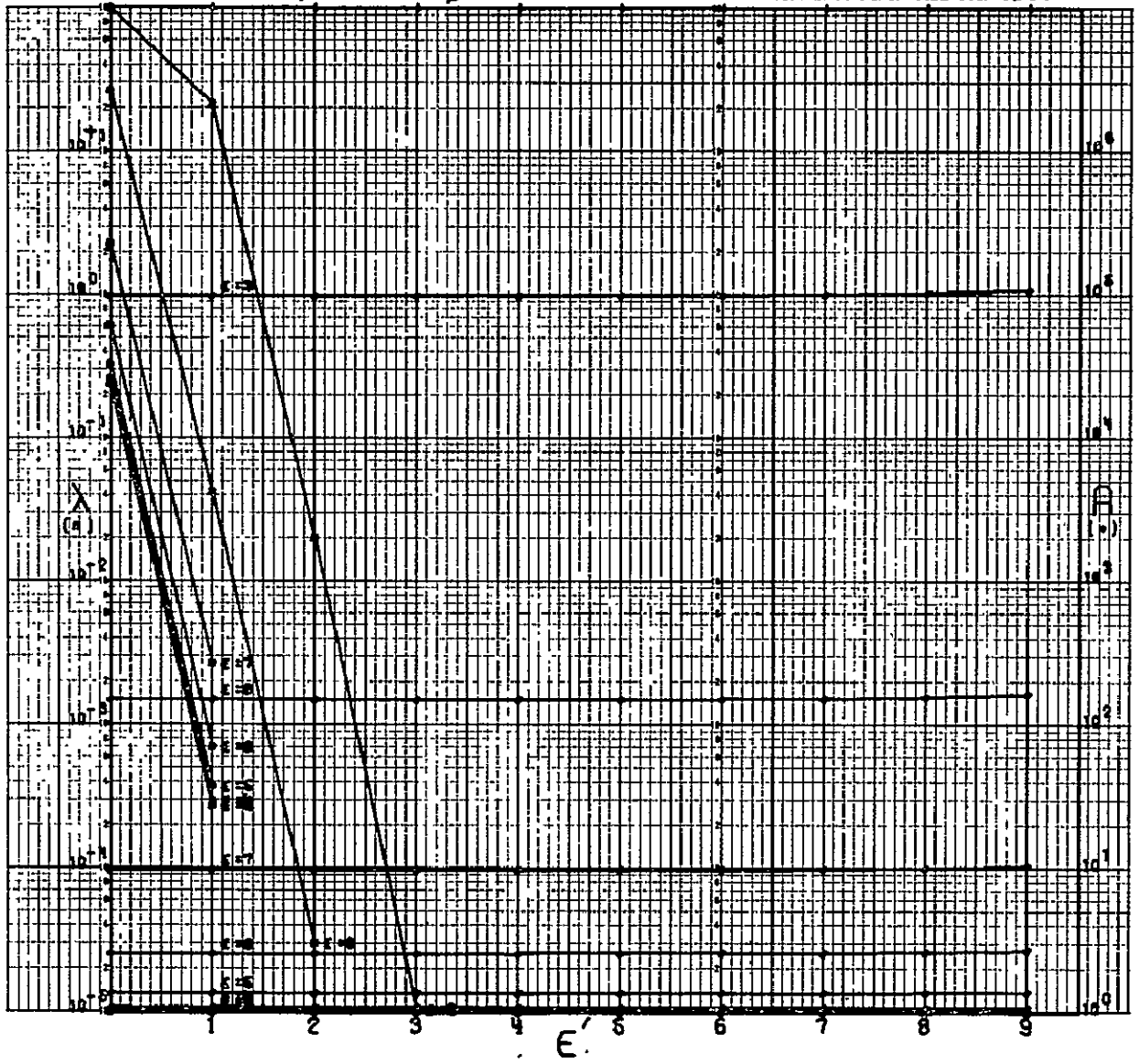
N = 24

CODE 111110101111001100100000
 GFC STANDARD

$\eta = 0.001$

$\beta = 50$

(DRAWN BY ADP, CODE 512, GFC)



N = 24

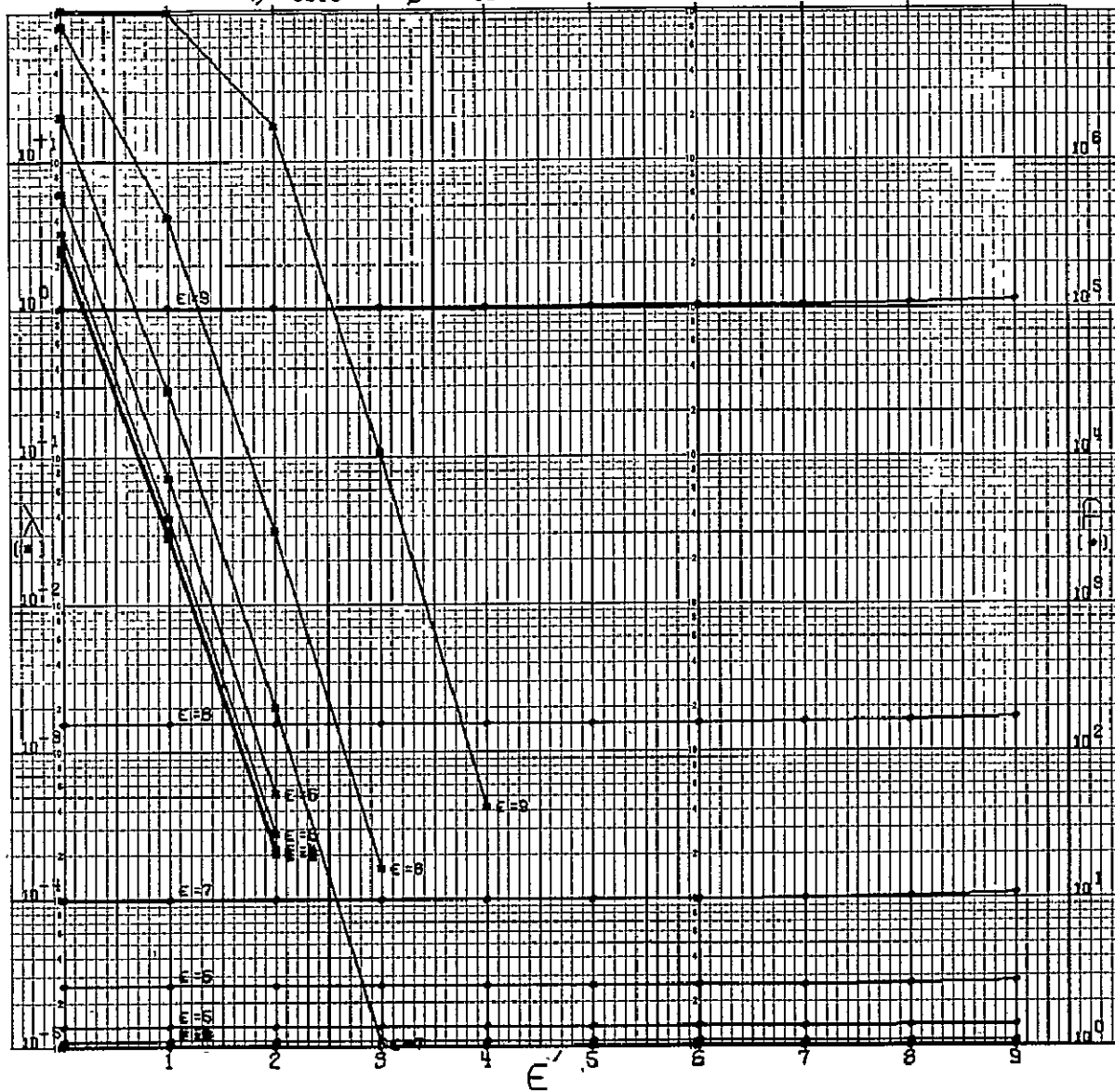
CODE 111110101111001100100000

GSFC STANDARD

$\eta = .0010$

$\beta = 50$

(DRAWN BY ACPB, CODE 642, GSFC)



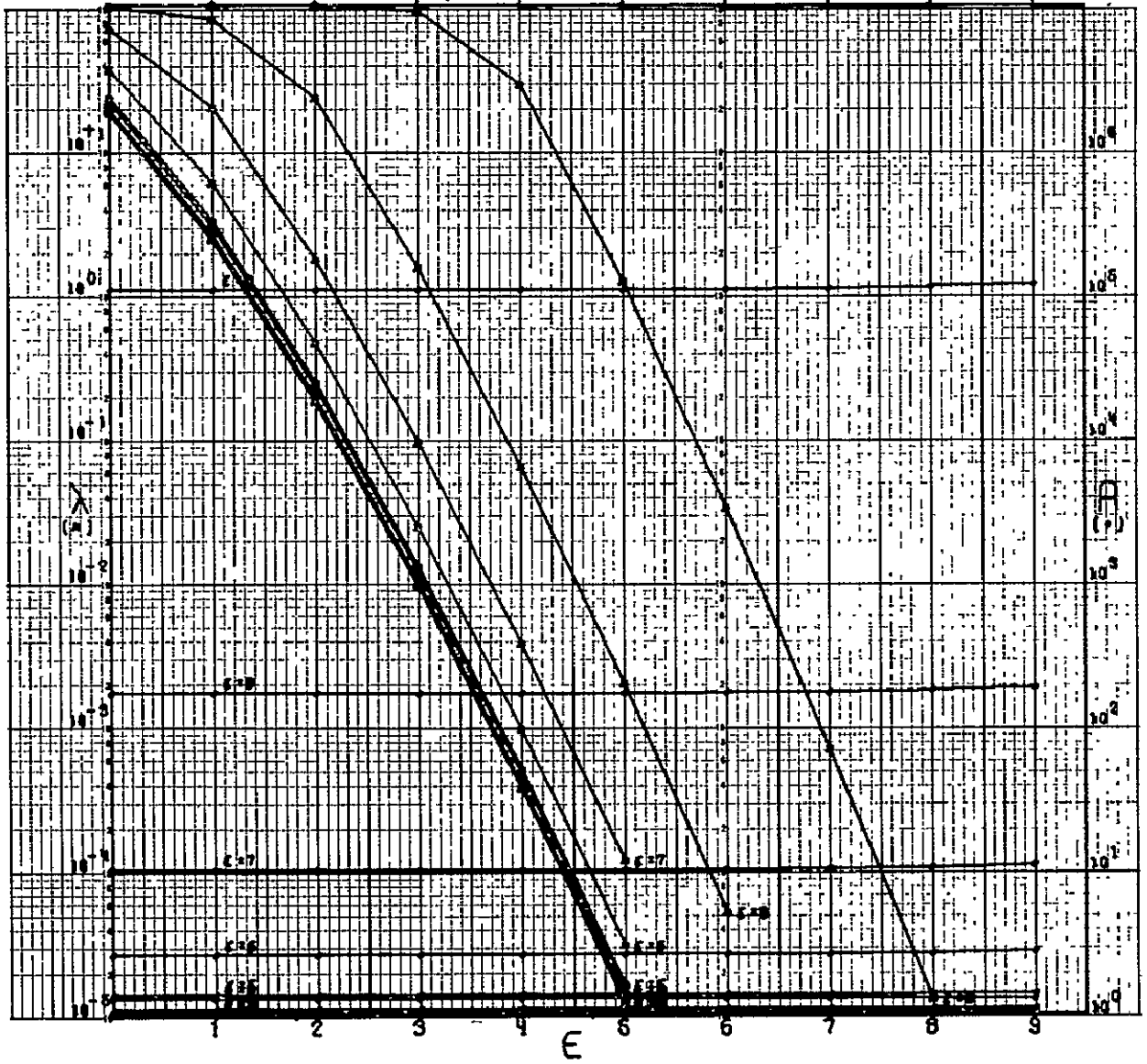
N° 24

CRC 11110101111001100100000
GFC STANDARD

$\gamma = 0100$

$\beta = 50$

(DRAW BY ADP. CODE SY2. GFC)



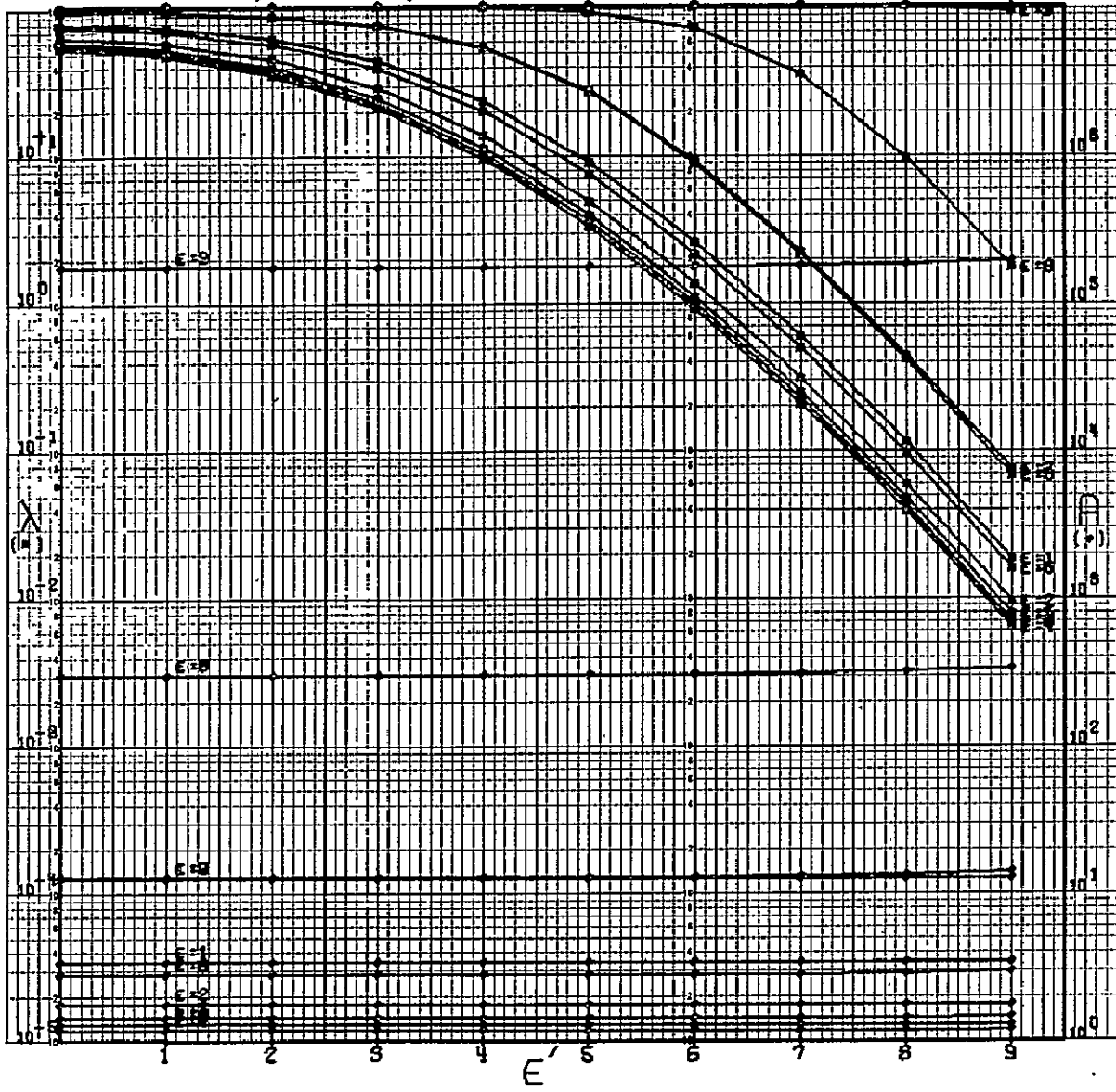
N=24

CODE 111110101111001100100000
GSPC STANDARD

$\eta = -1000$

$\beta = 50$

(DRAWN BY NOPS. CODE 512. GSPC)



N = 24

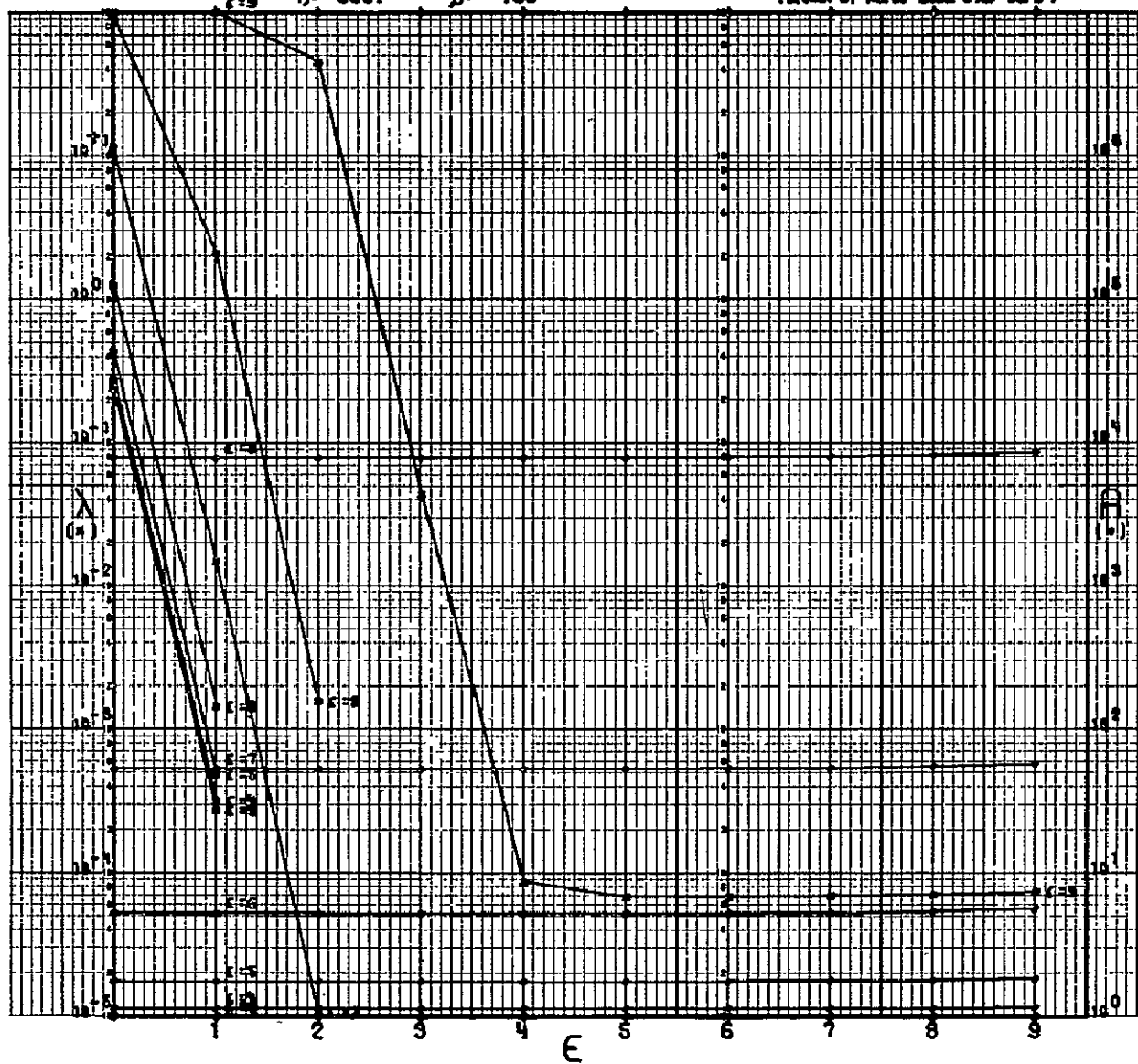
CASE 111110101111001100100000

GEFC STANDARD

$b = 0.0001$

$\beta = 100$

(ORIGIN BY FORM. CASE 572. GEFC)



N=24

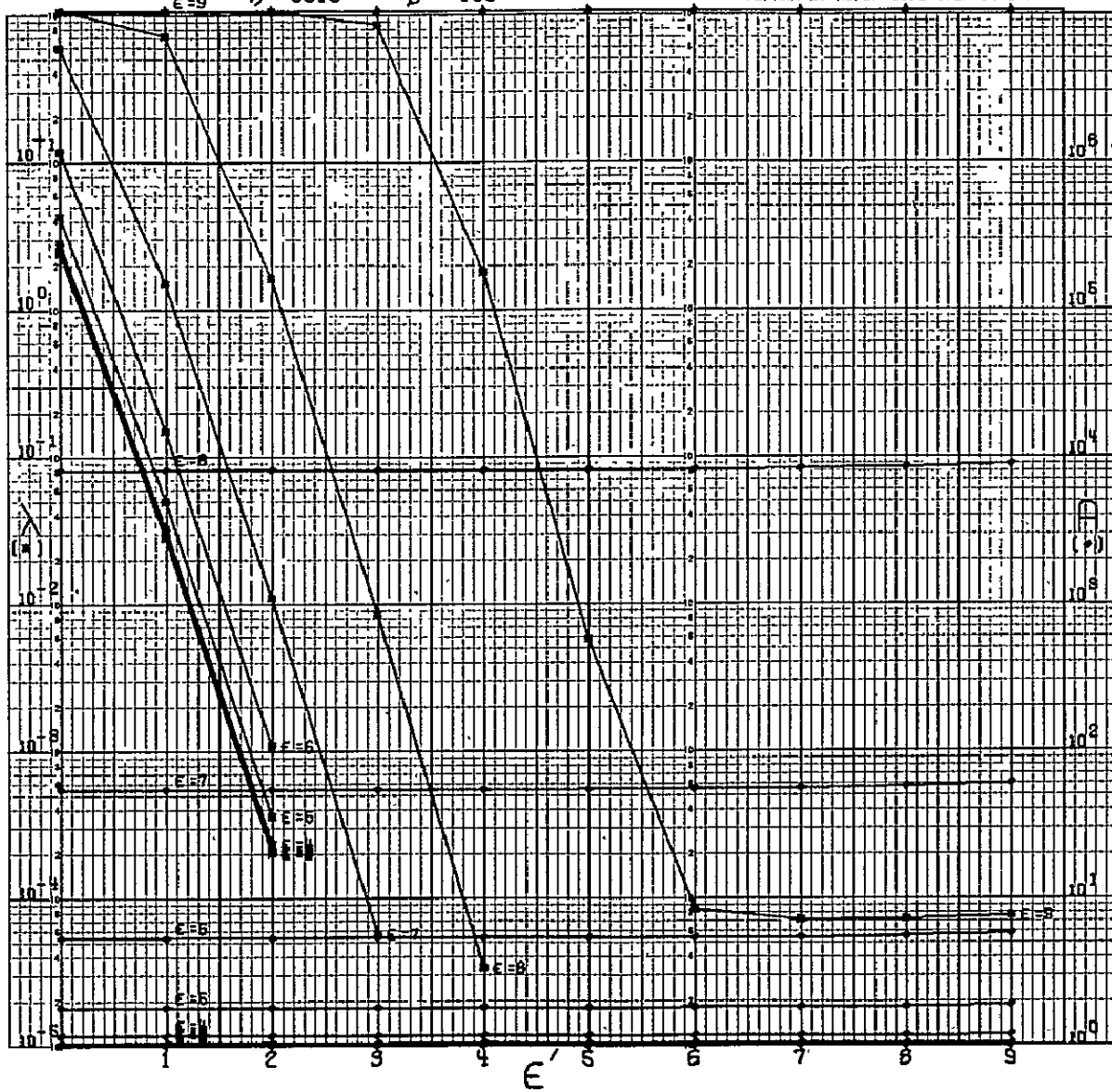
CODE 111110101111001100100000

GSFC STANDARD

$\epsilon = 9$ $\eta = .0010$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



N° 24

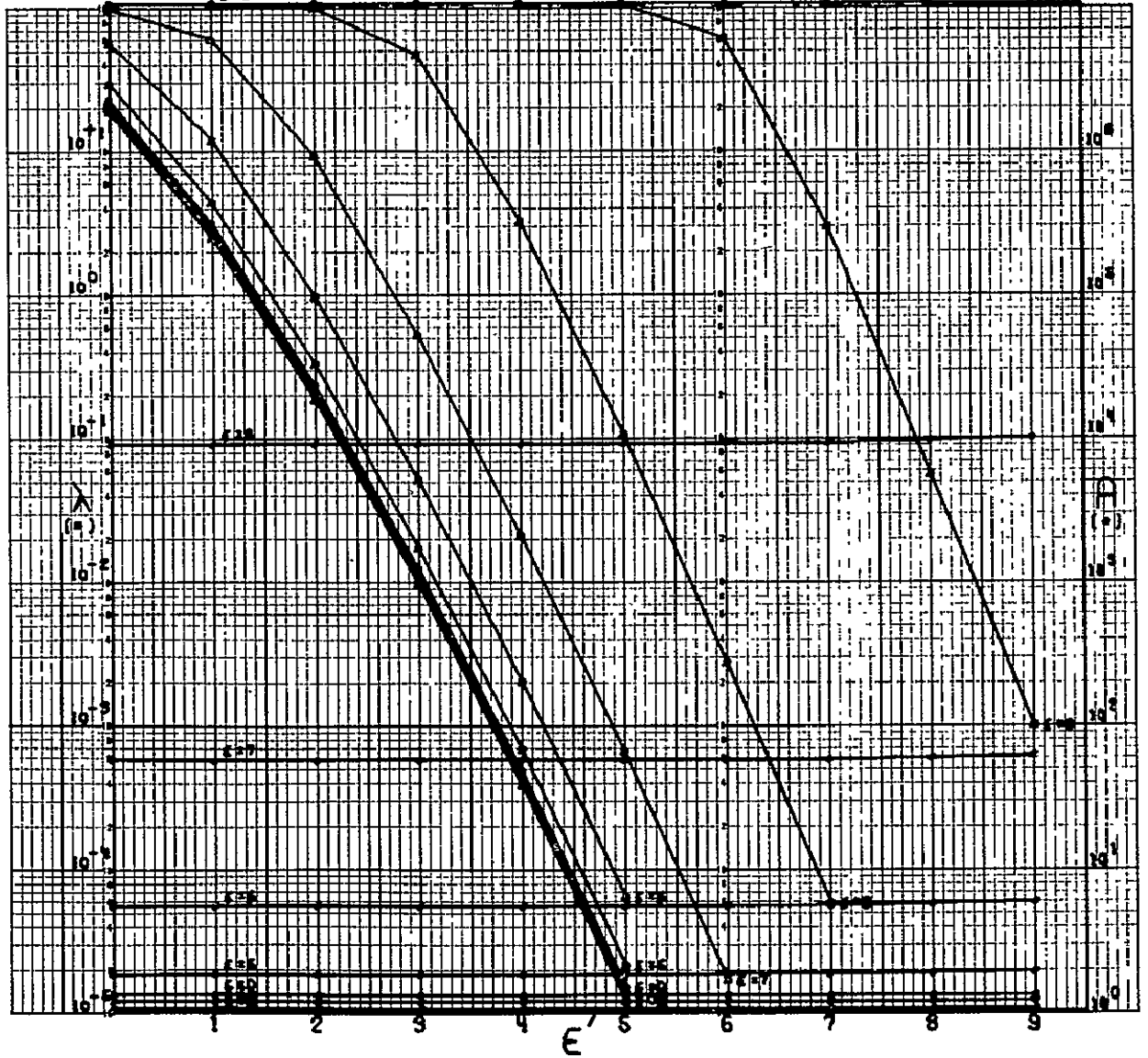
CODE 111110101111001100100000

GEFC STANDARD

$b = -0.100$

$\beta = 100$

(DRAWN BY ROPE, CODE 512, GEFC)



N=24

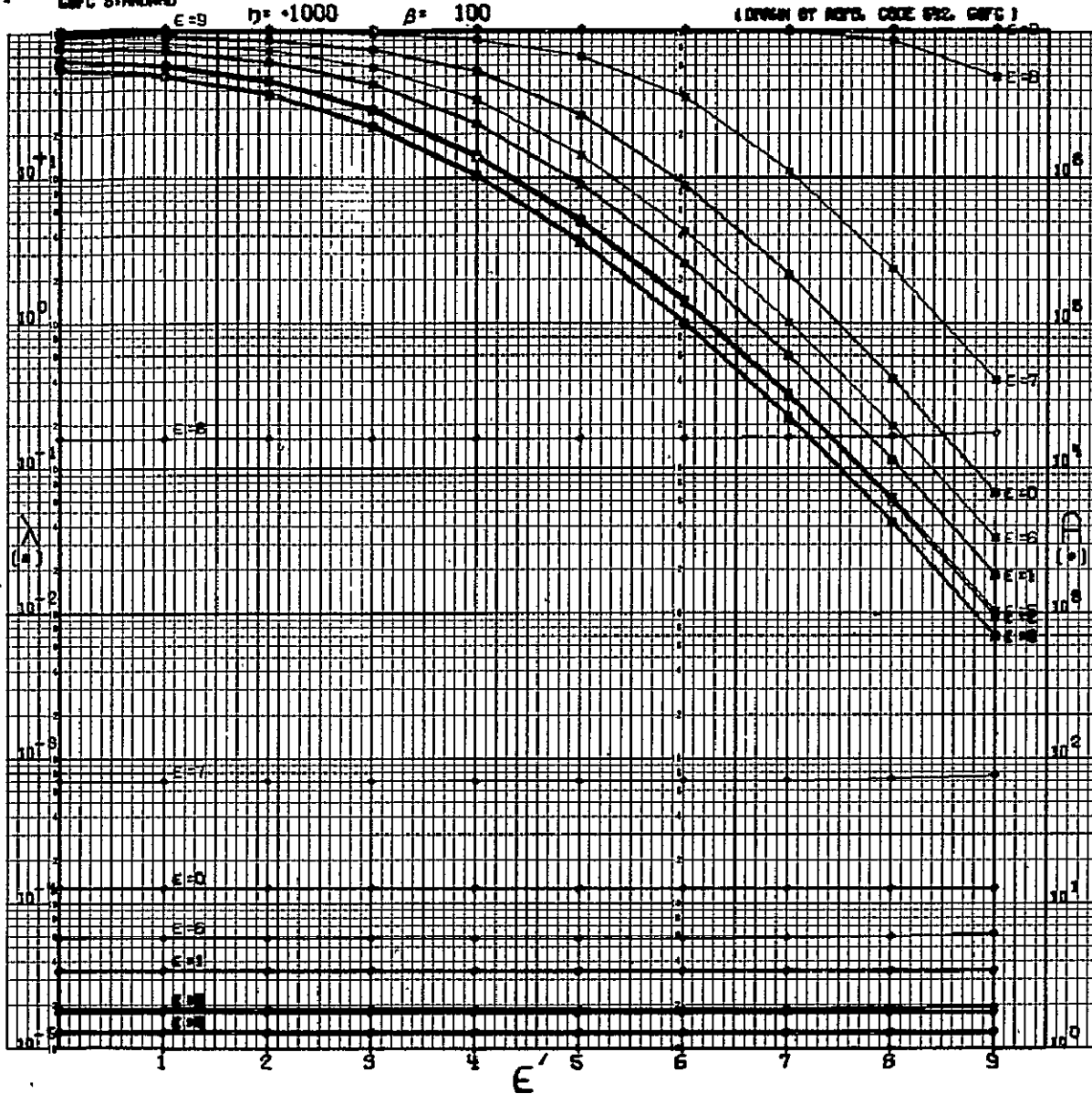
CODE 111110101111001100100000

CMFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ARPS. CODE 092. GFGS)



N = 24

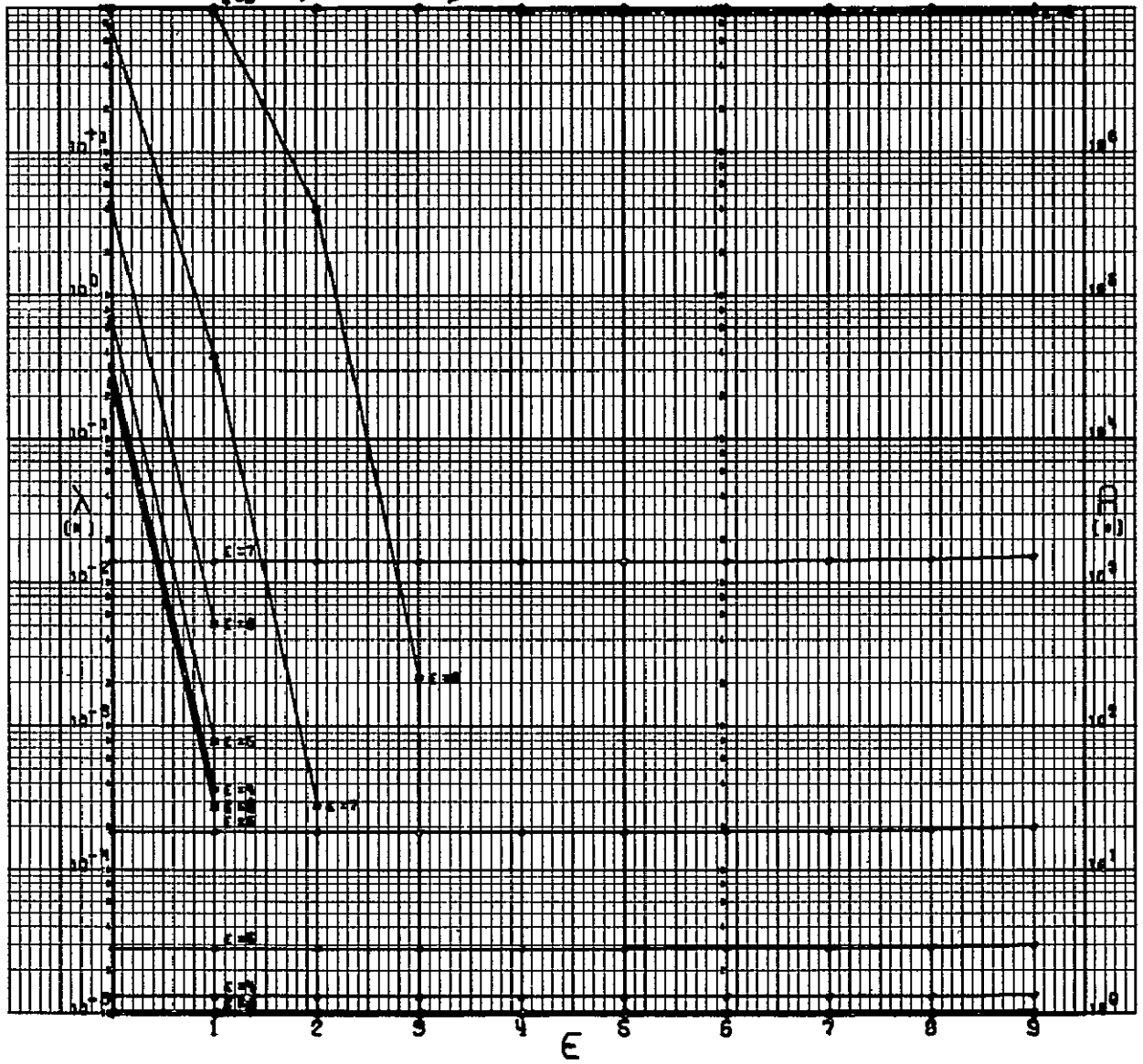
CODE 111110101111001100100000
GSC 67400000

$\epsilon = 0$

$h = -0001$

$\beta = 200$

(DPSAN/OT APPL CODE 572, GSC)



N = 24

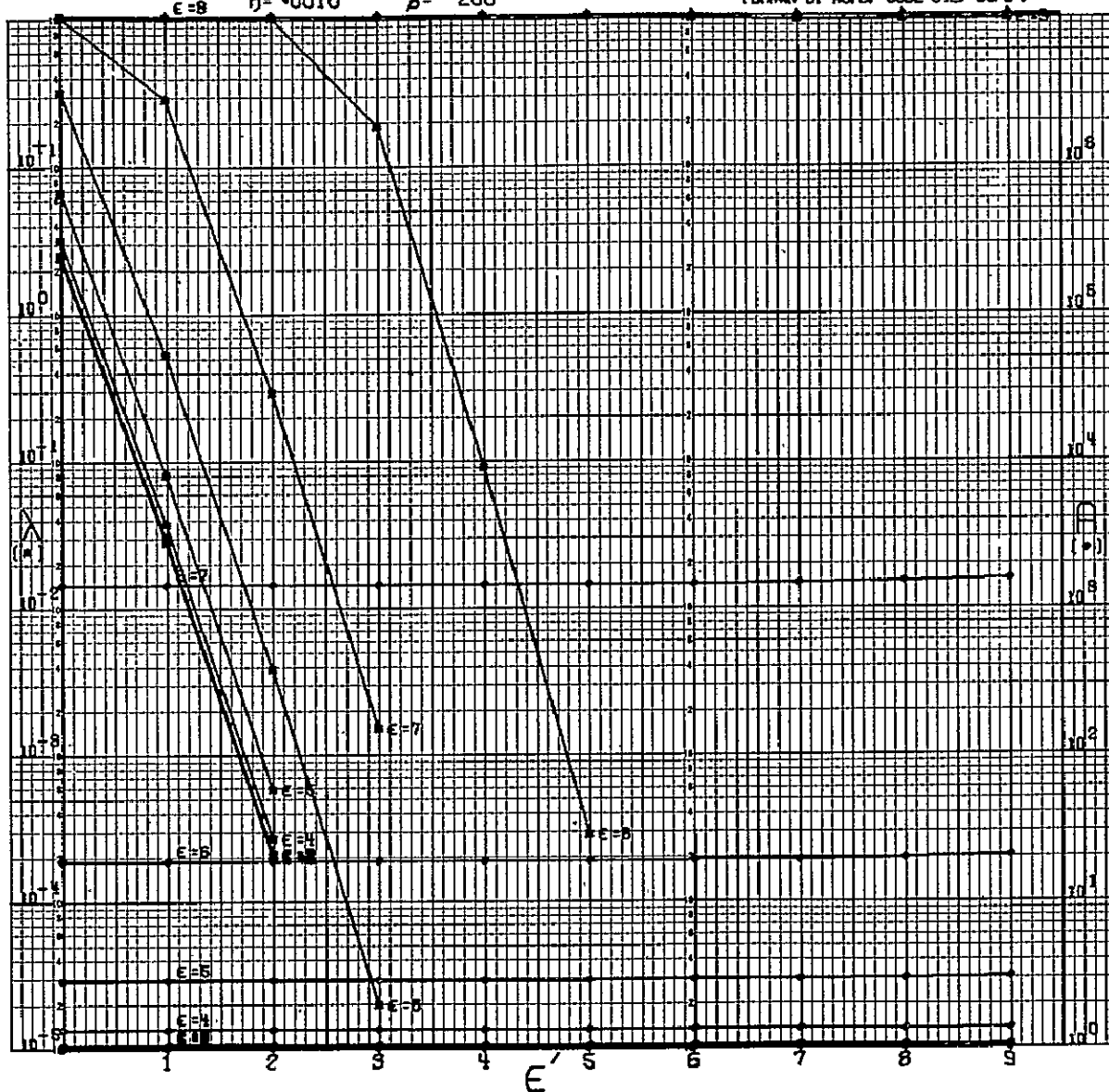
CODE 111110101111001100100000

GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSFC)



A-552

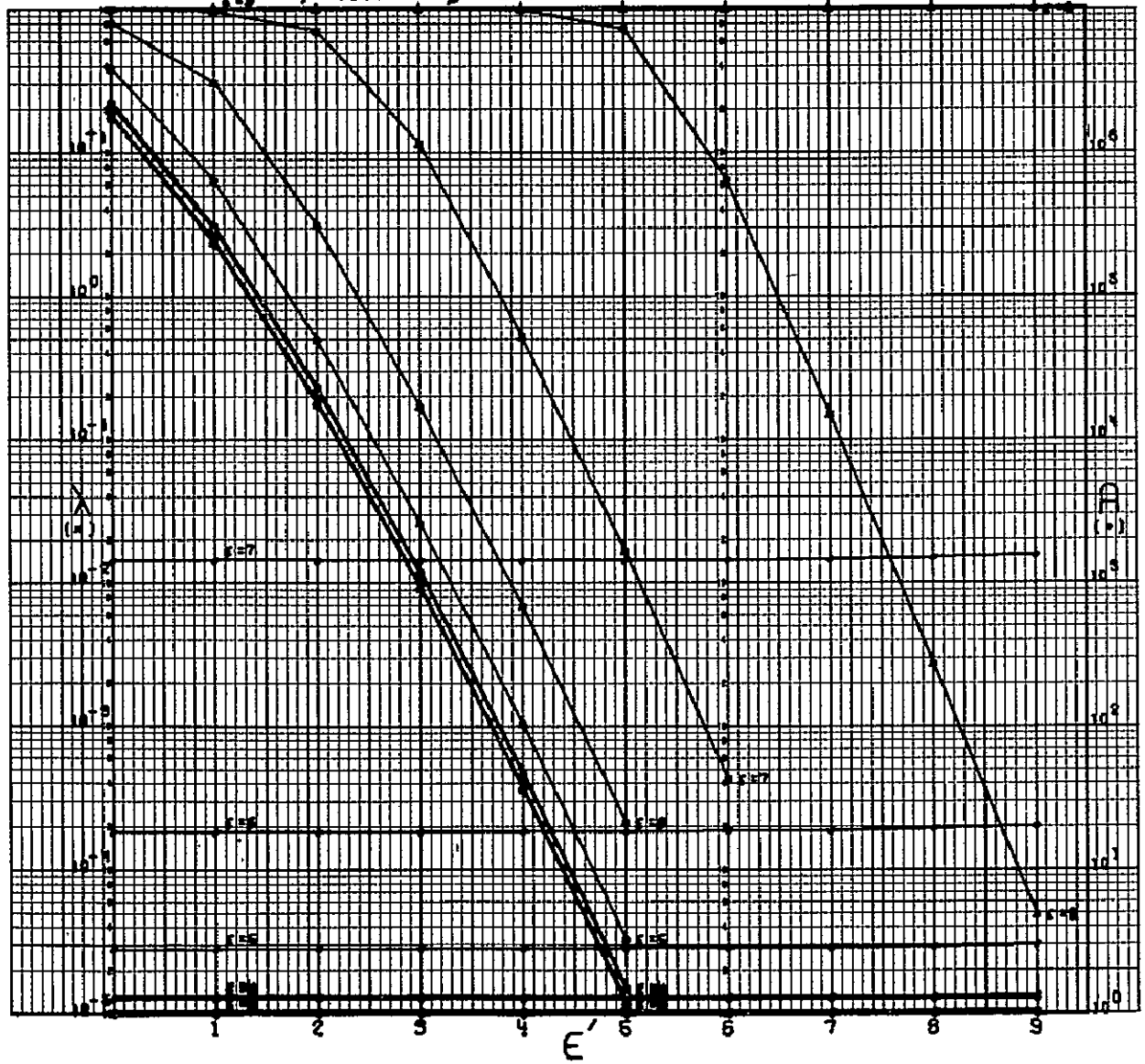
N = 24

CODE 1111101011100100100000
SANC STANDARD

$\eta = -0.100$

$\beta = 200$

ISSUED BY ACPB. CODE 512. 945. 1



N = 24

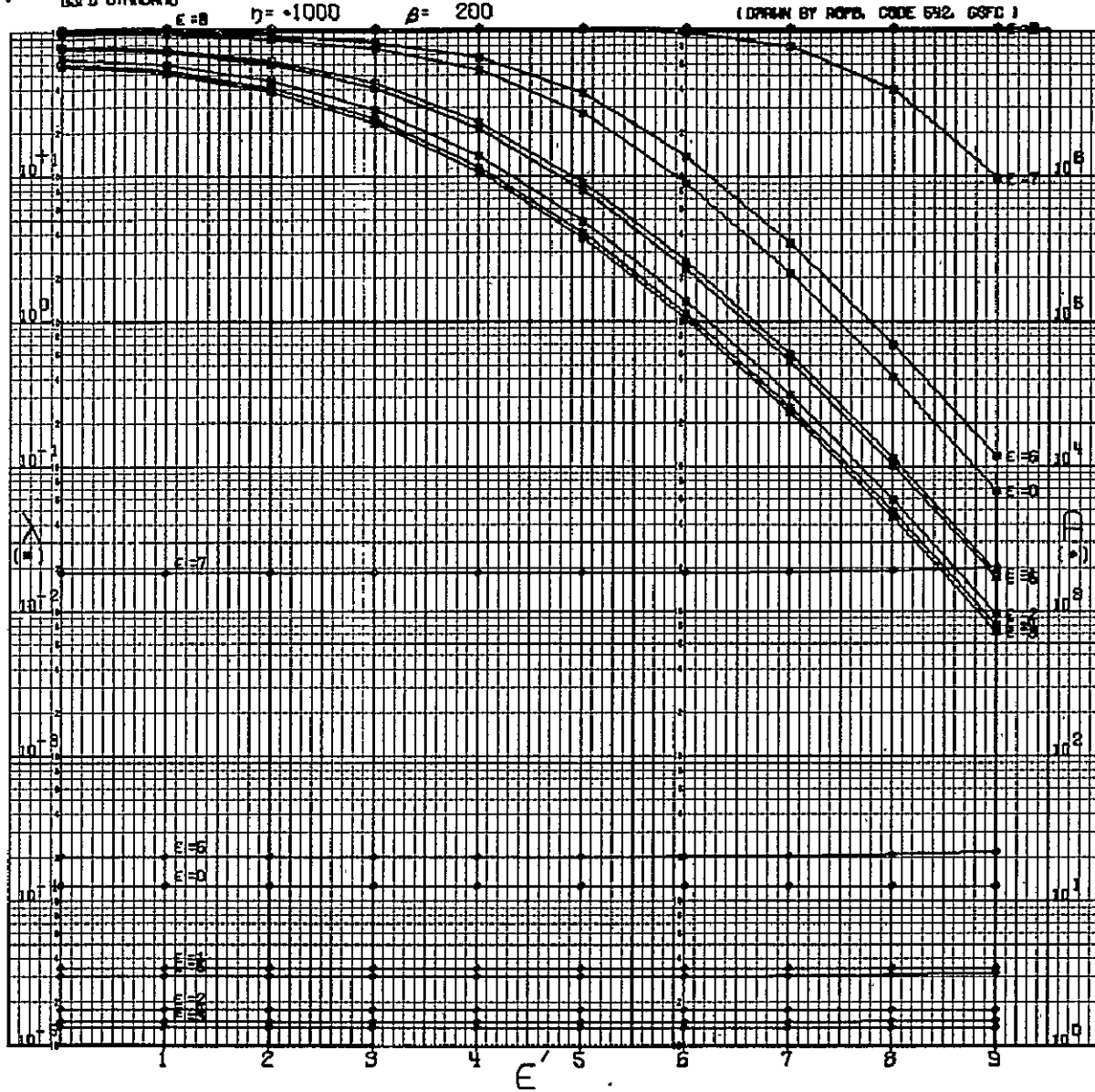
CODE 111110101111001100100000

GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROMP, CODE 592, GSFC)



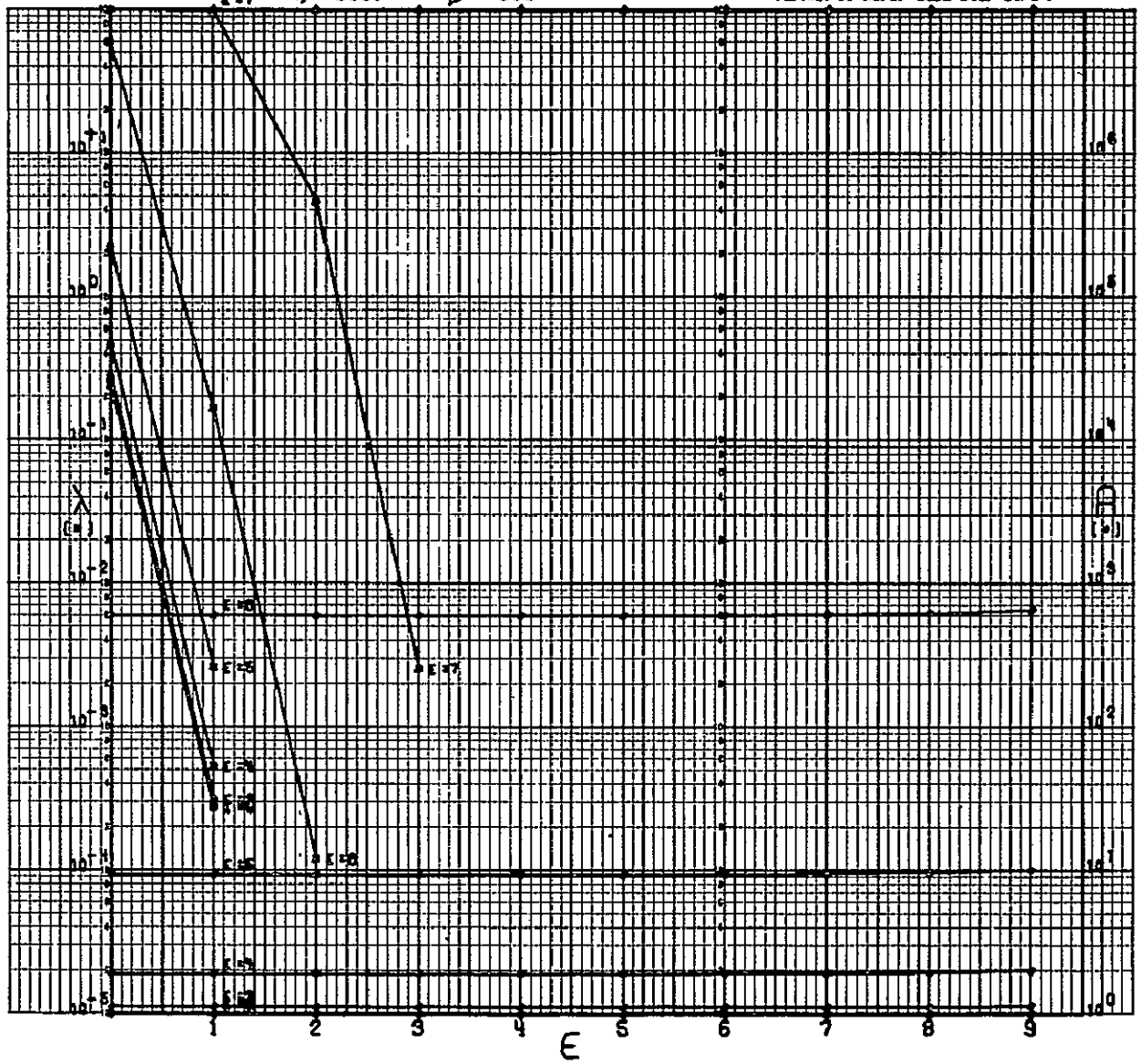
N = 24

C802 111110101111001100100000
GEFC STANDARD

$\epsilon = 7$ $\eta = -0001$

$\beta = 500$

(APPROX BY MATH. CASE 892. 00FC)



N = 24

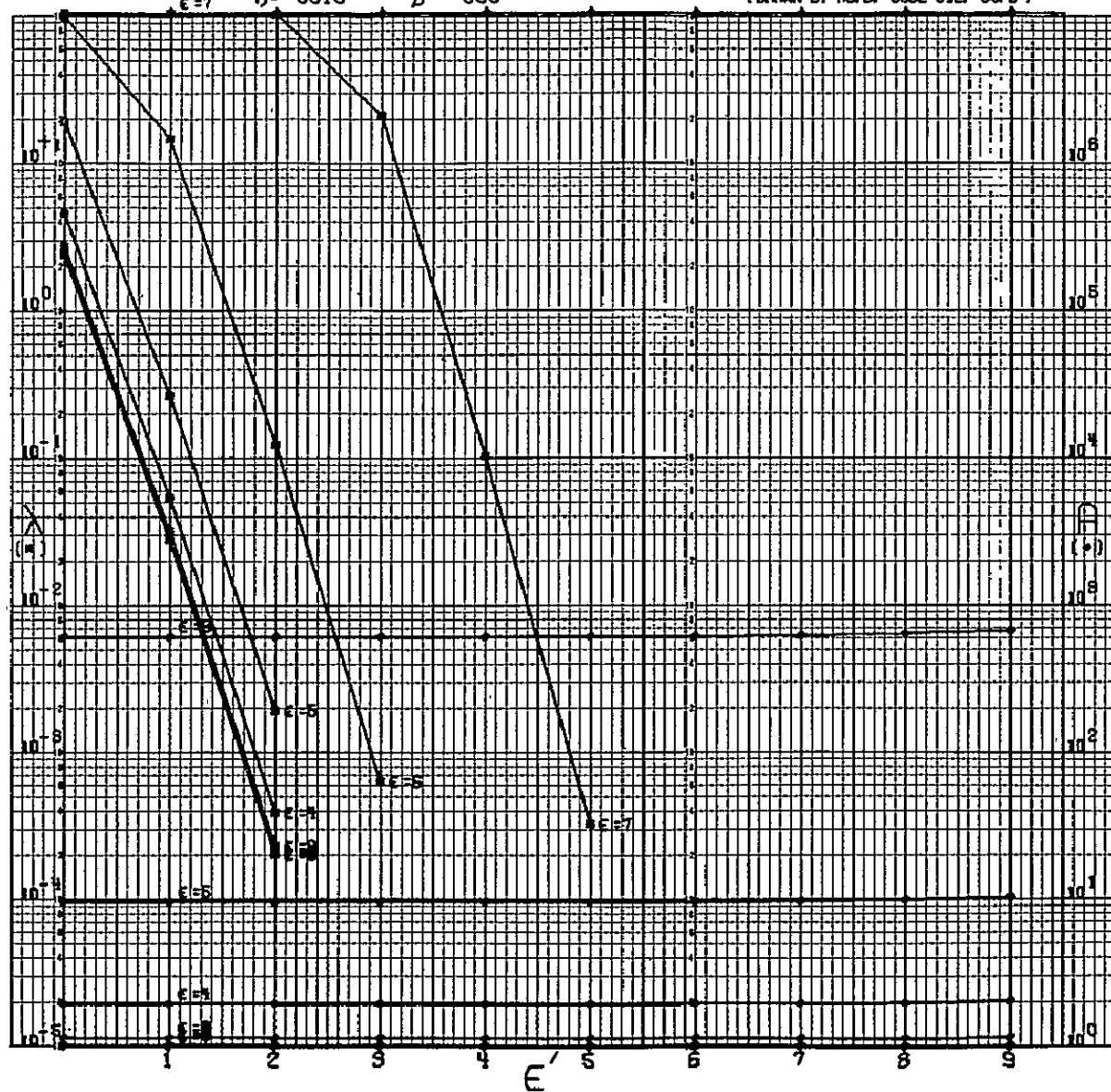
CODE 111110101111001100100000

GSFC STANDARD

$\epsilon = 7$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROPEL CODE 542 GSFC)



A-556

N° 24

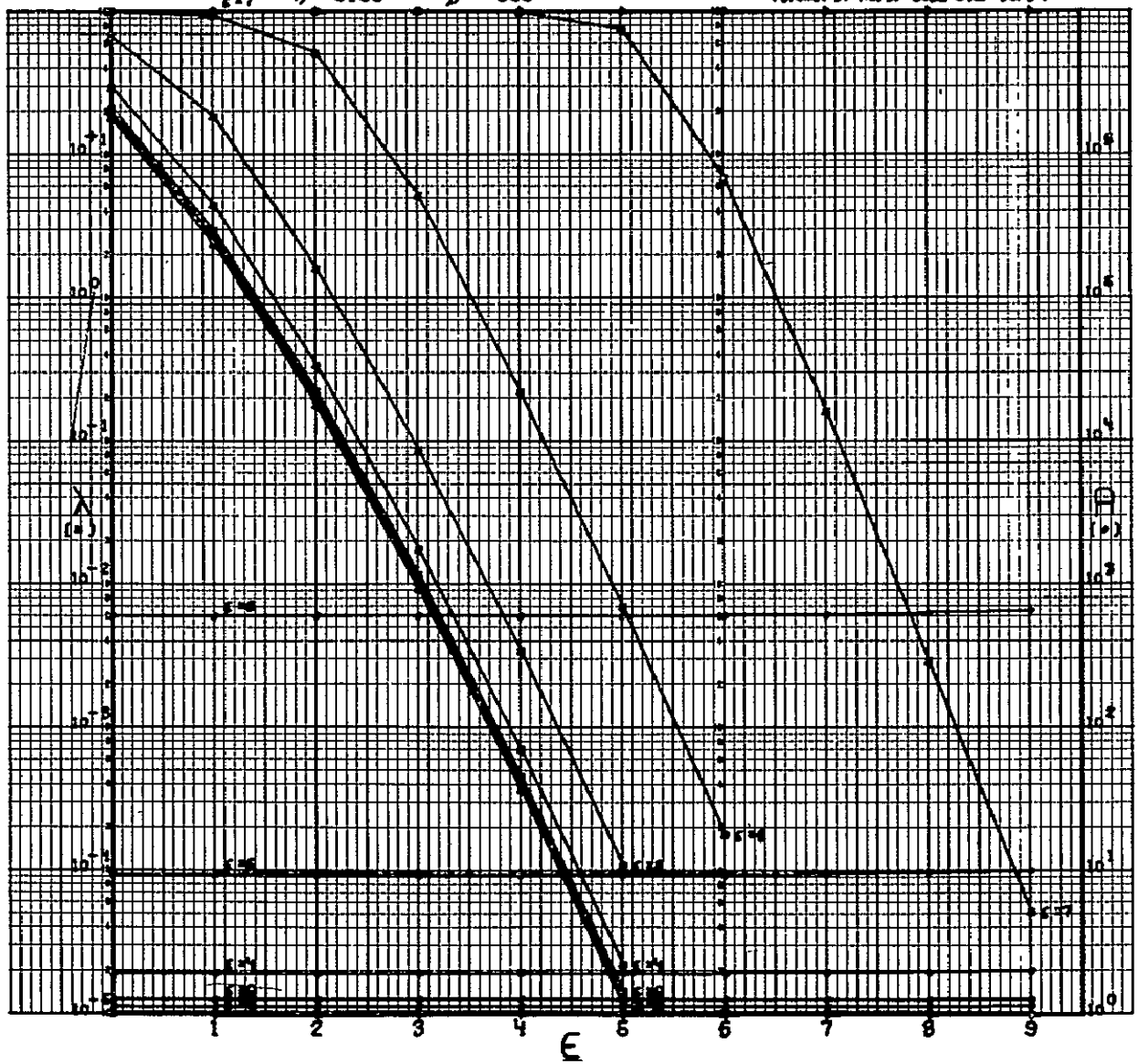
CODE 111110101111001100100000

GEFC STANDARD

$\epsilon = 7$ $\eta = -0.100$

$\beta = 500$

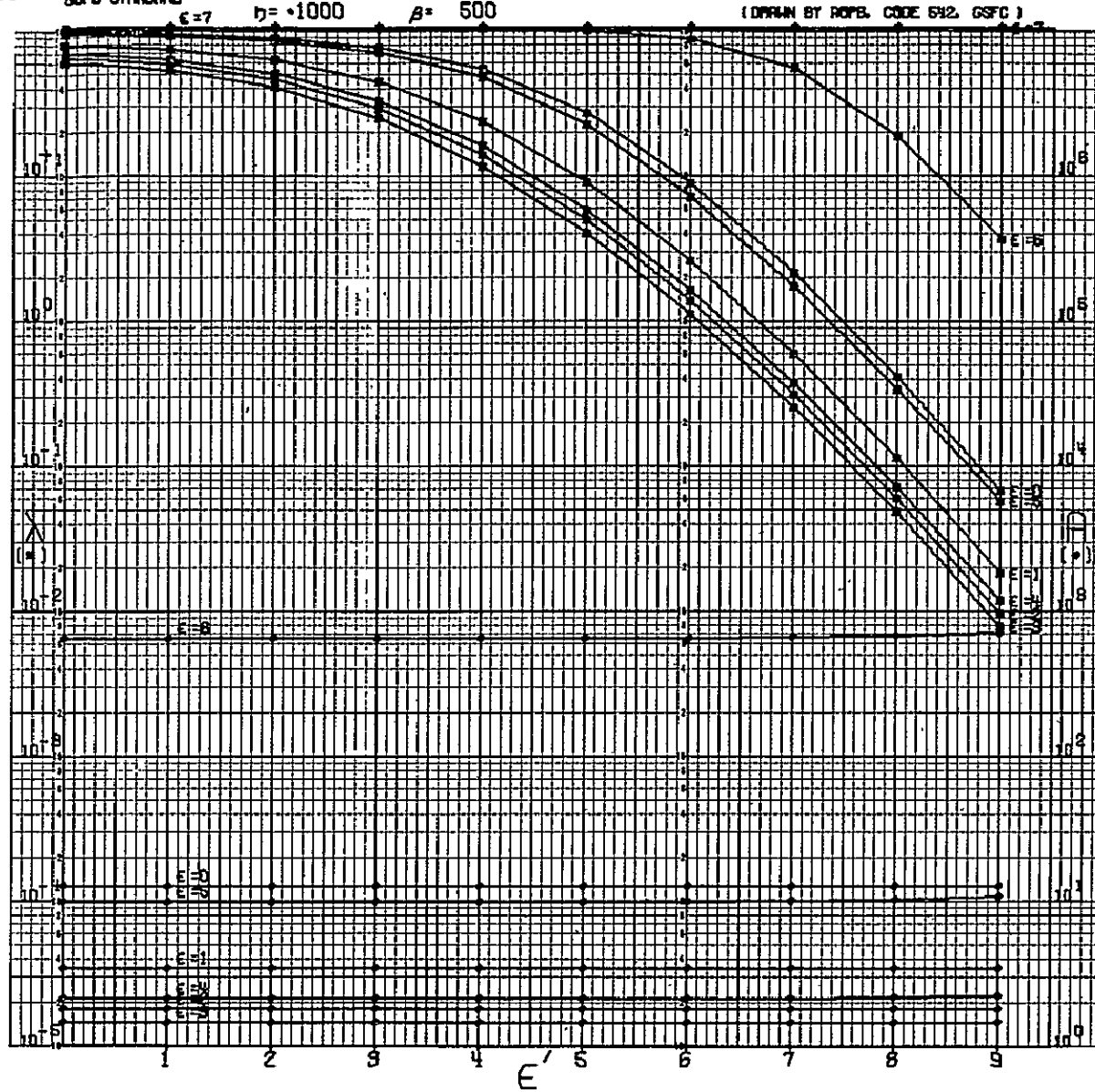
(GRAPH BY NOPS. CODE 612. 66FC)



CODE 111110101111001100100000
GSFC STANDARD

GSFC STANDARD $\eta = 1000$ $\beta = 500$

(DRAWN BY ROPEL CODE 542 GSFC)



N = 24

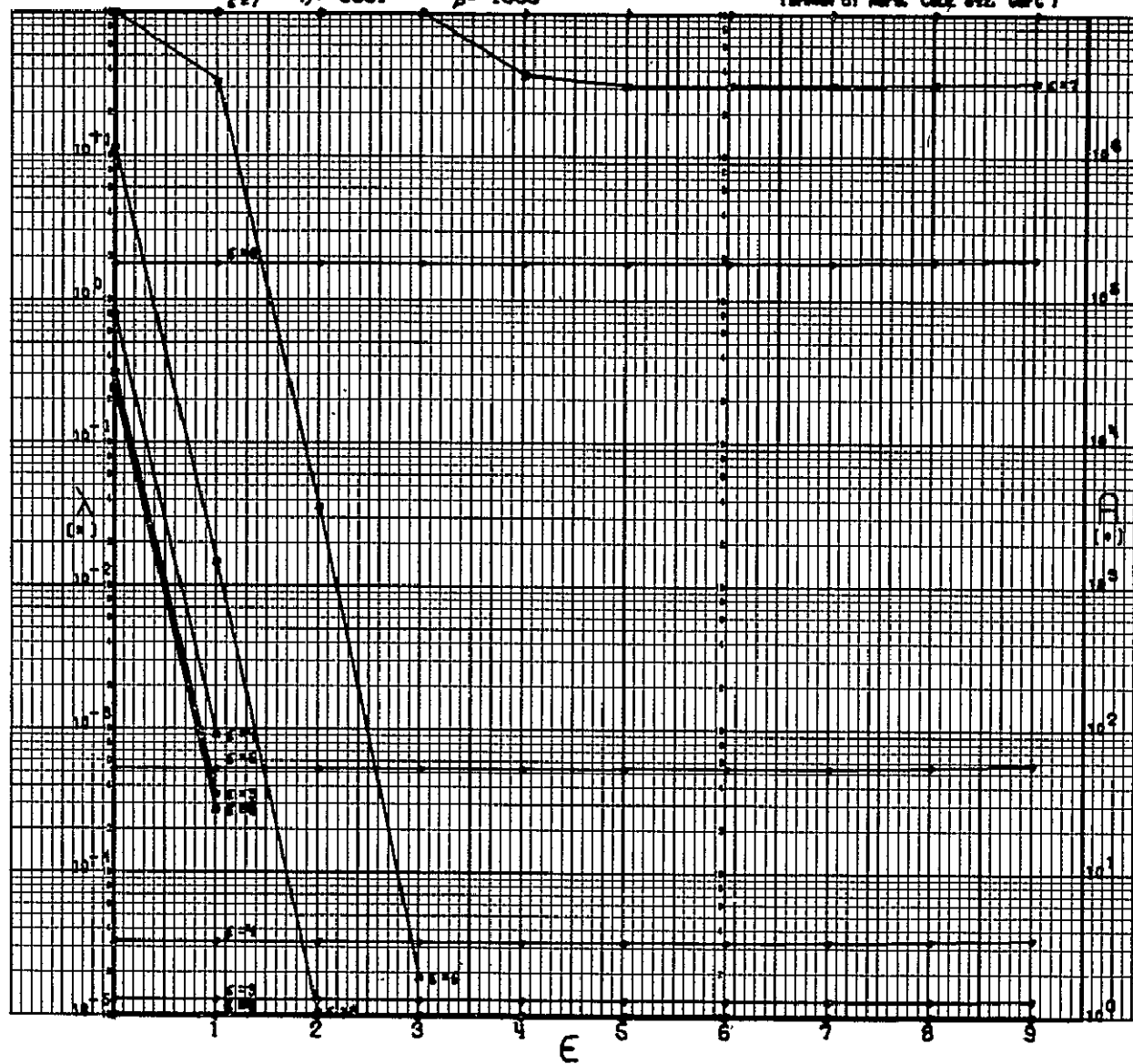
CDC 111110101111001100100000

GBFC STANDARD

$\epsilon = 7$ $b = -0001$

$\beta = 1000$

(APPROX BY ARPL CDC 512, GBFC)



N=24

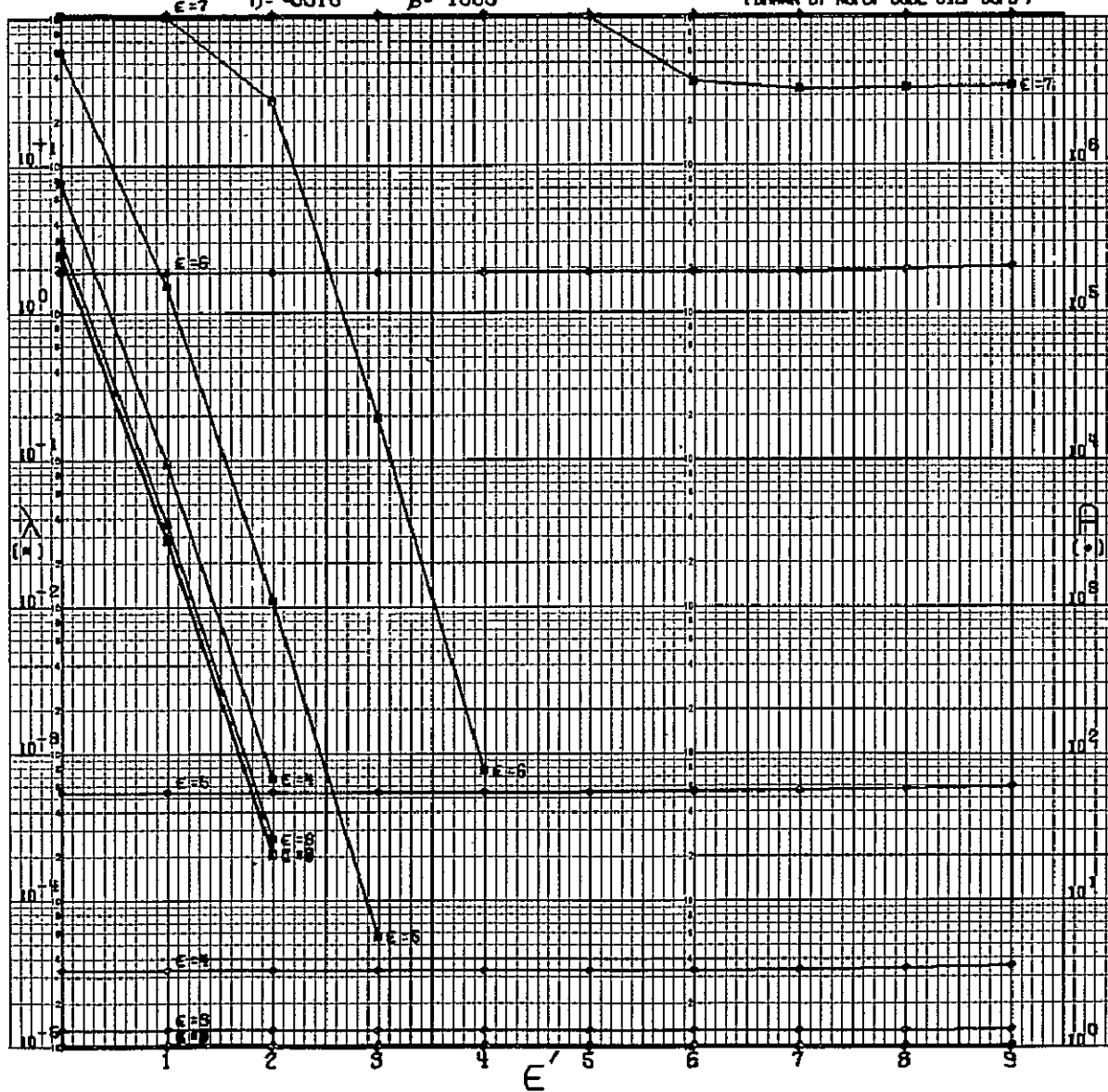
CODE 111110101111001010100000

GSFC STANDARD

$\eta = 40010$

$\beta = 1000$

(DRAWN BY ROFS, CODE 642, GSFC)



A-560

N=24

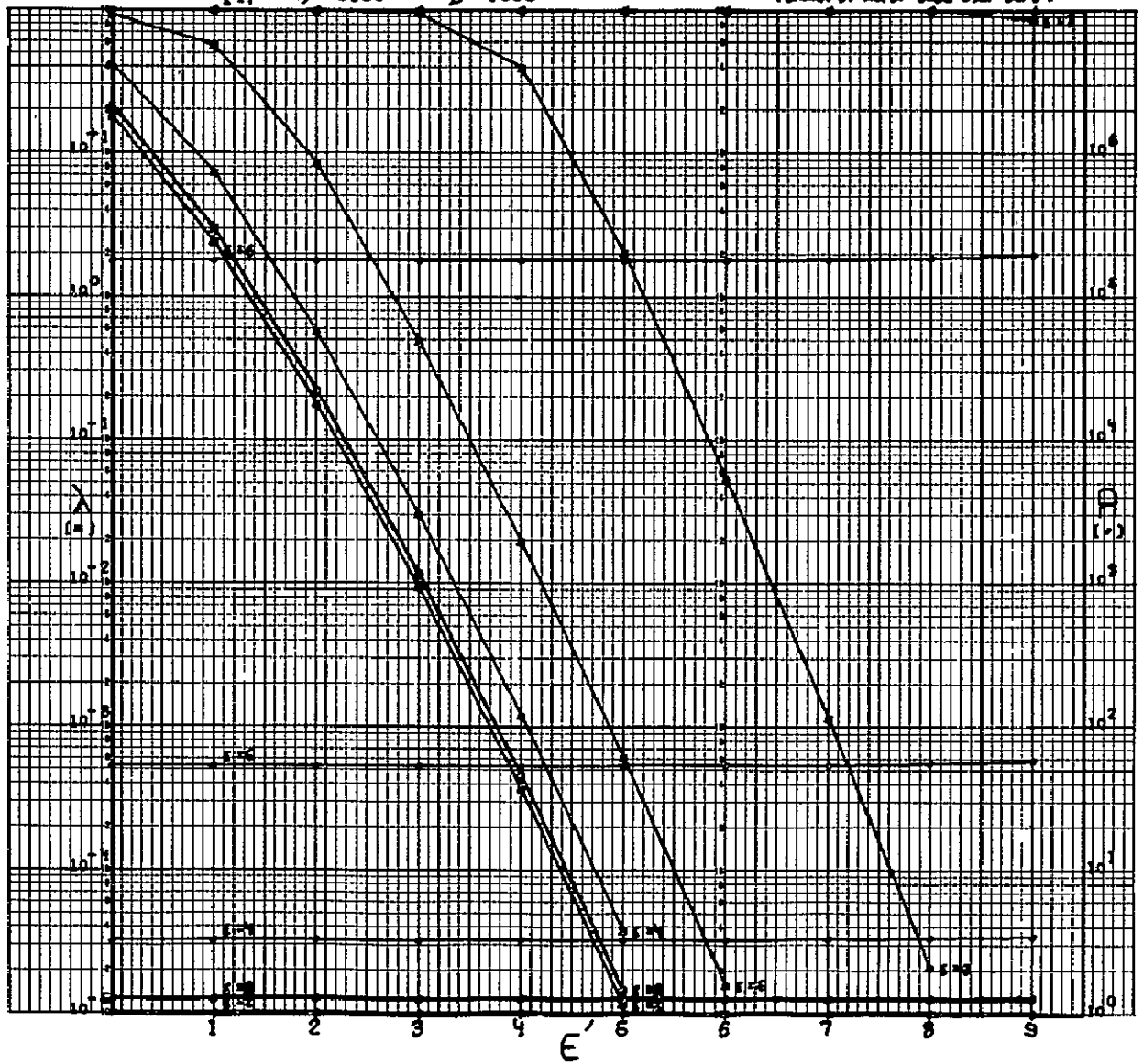
CODE 111110101111001100100000
GEFC STANDARD

$\epsilon = 7$

$h = 0.100$

$\beta = 1000$

(BASED ON NORS. CODE 512. GEFC)



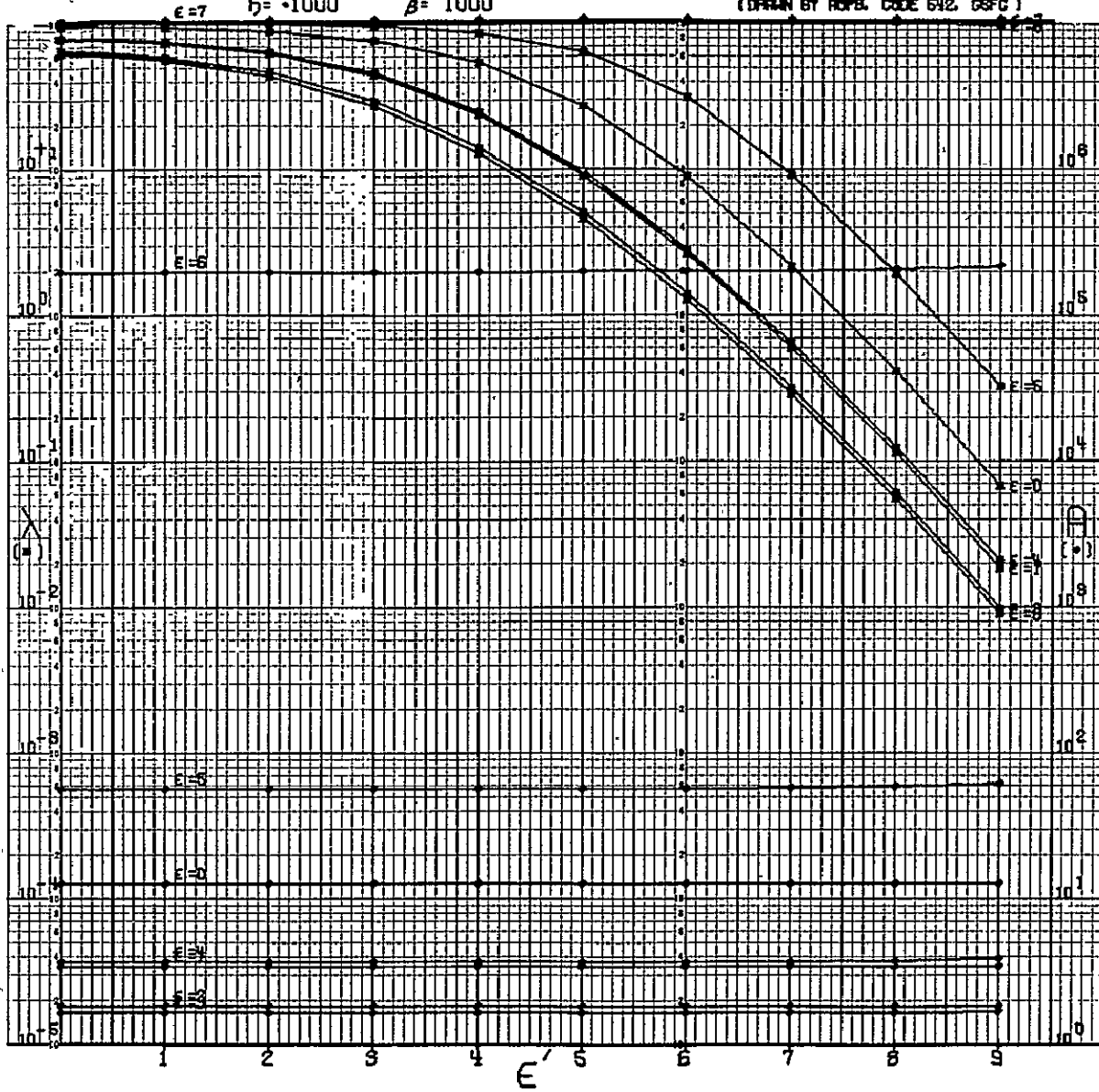
N = 24

CODE 111110101111001100100000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

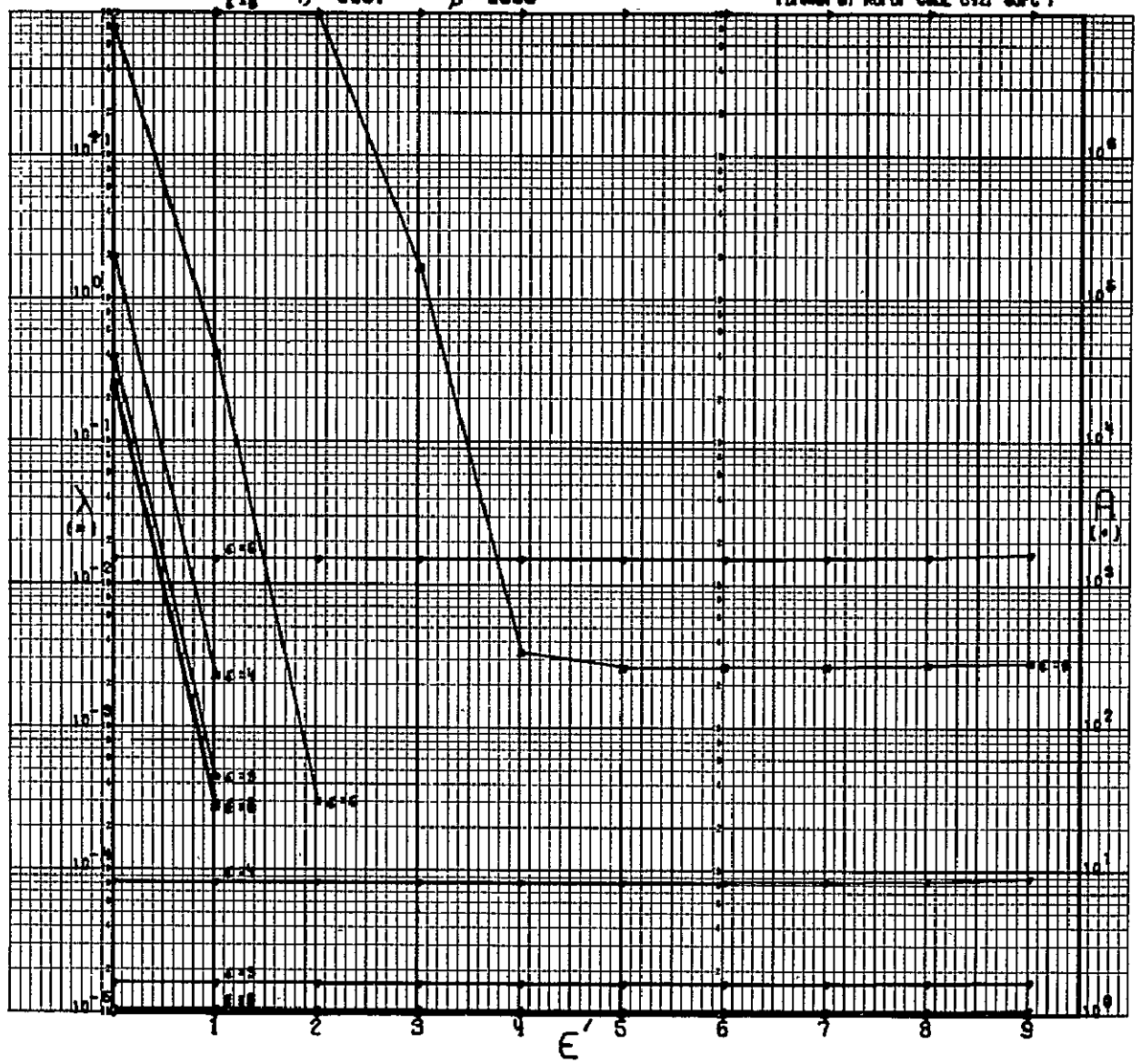
(DRAWN BY ROMB. CODE 542, GSFC)



N = 24 CODE 111110101111001100100000
 GDFC STANDARD

$\eta = 0.0001$ $\beta = 2000$

(DRAWN BY AOPS, CODE 572, GDFC)



N=24

CODE 111110101111001100100000

GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 512, GSFC)



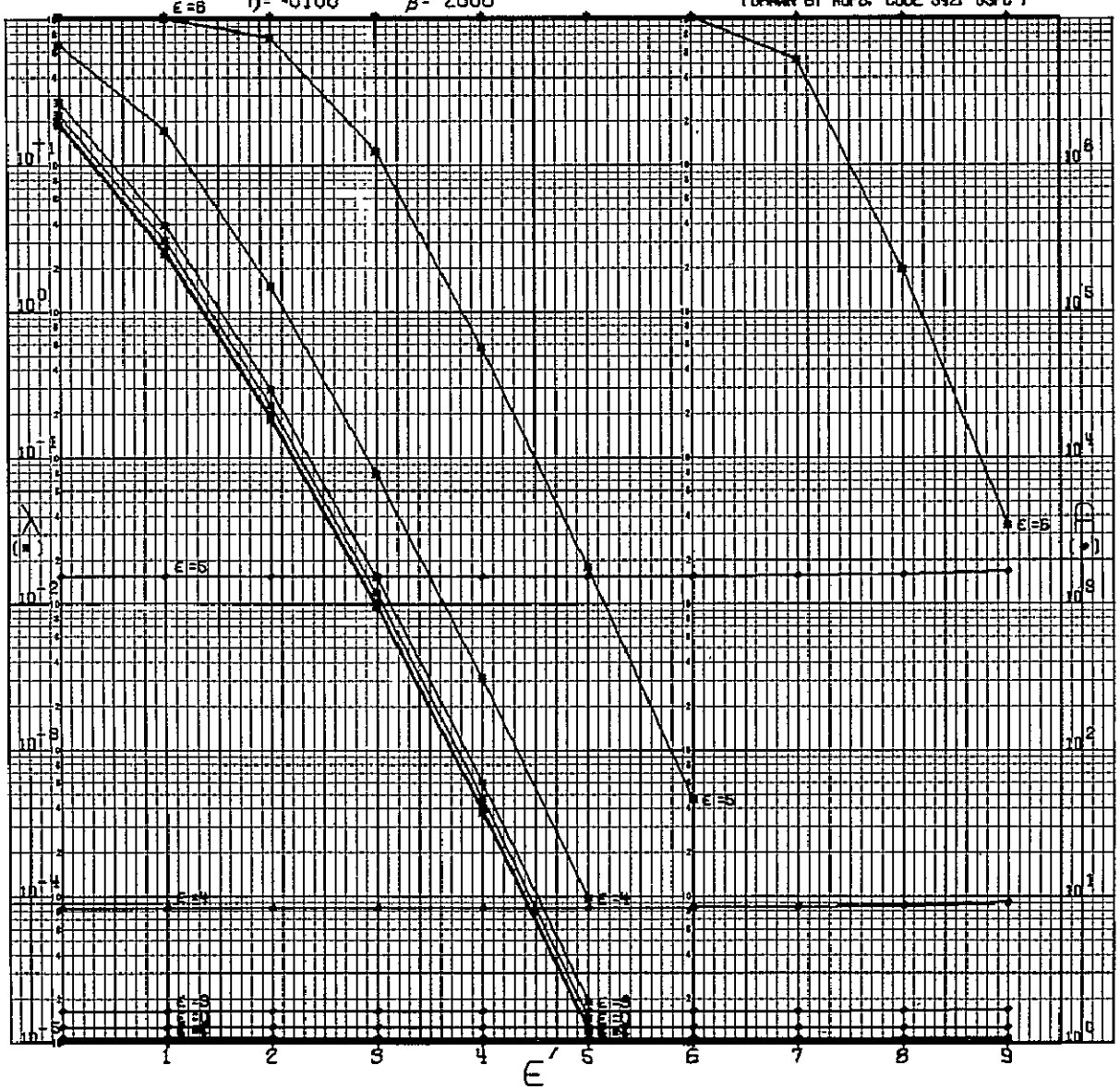
A-564

N = 24

CODE 111110101111001100100000
GSFC STANDARD

$\eta = -0100$ $\beta = 2000$

(DRAWN BY ROPS, CODE 542, GSFC)



N=24

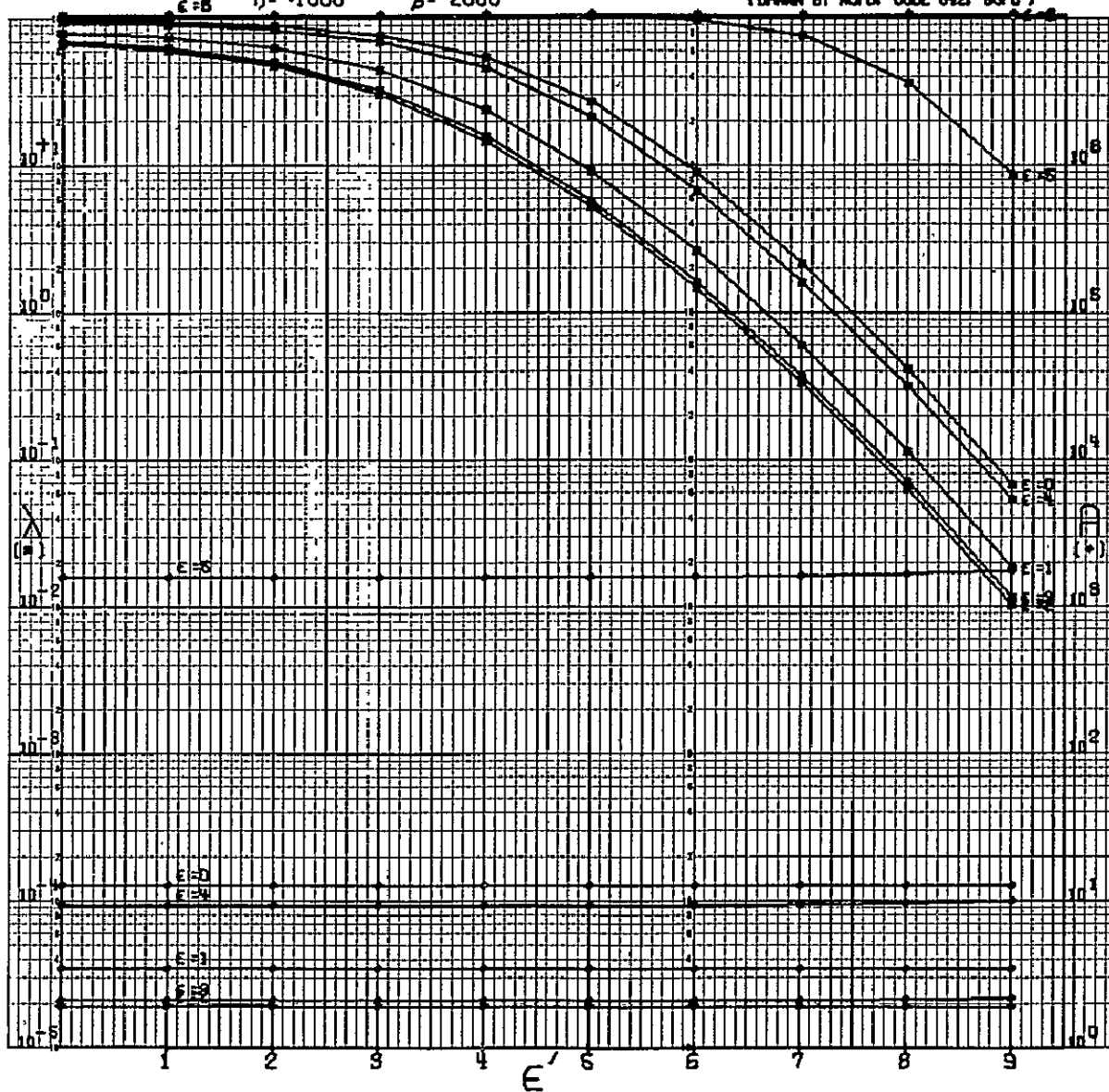
CODE 111110101111001100100000

GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY REFS. CODE 542, GSFC)



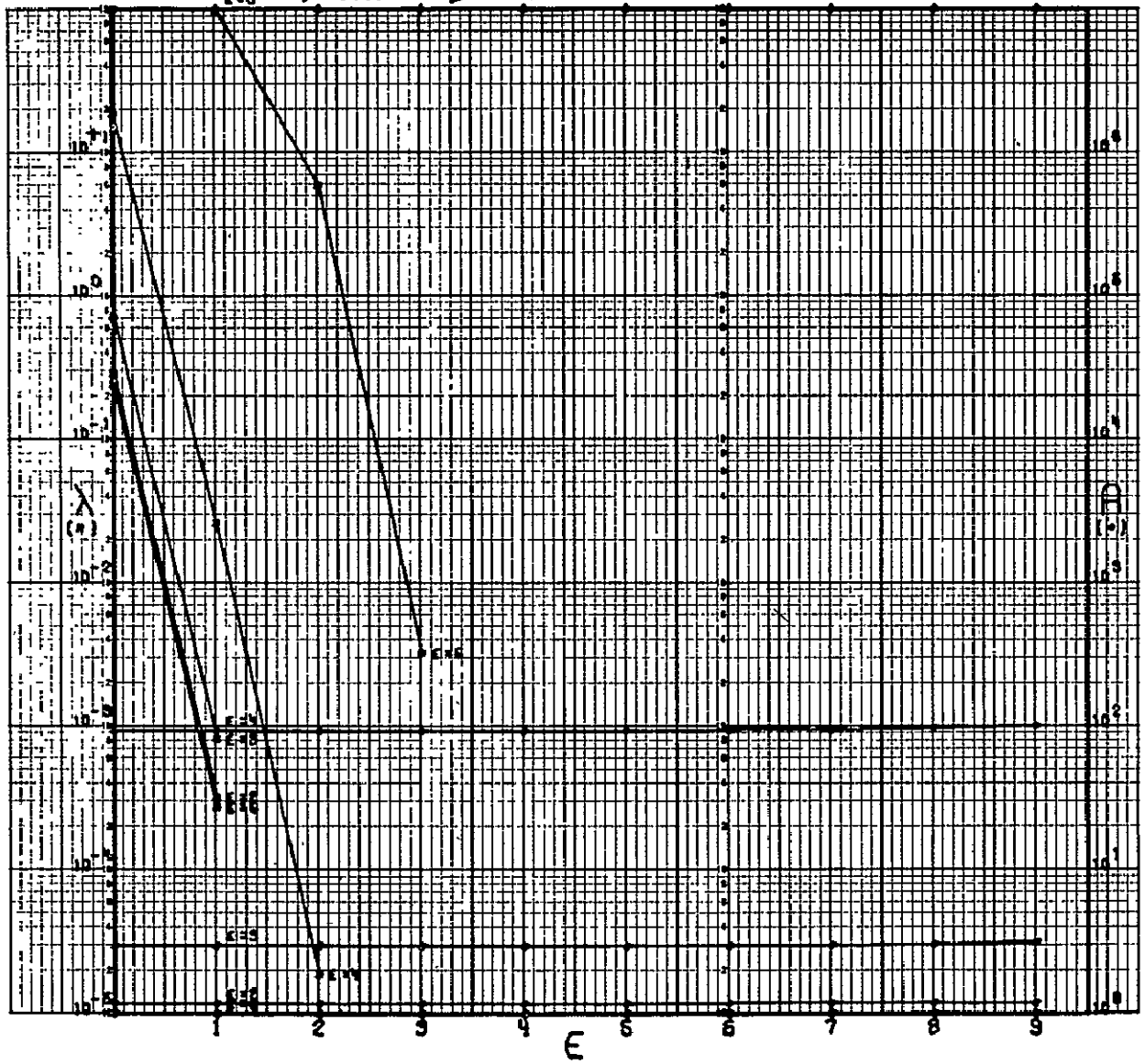
N = 24

CASE 111110101111001100100060
GAPC STANDARD

$b = 0.0001$

$\beta = 5000$

(GRAPH BY ADP. CASE 612. 087C)



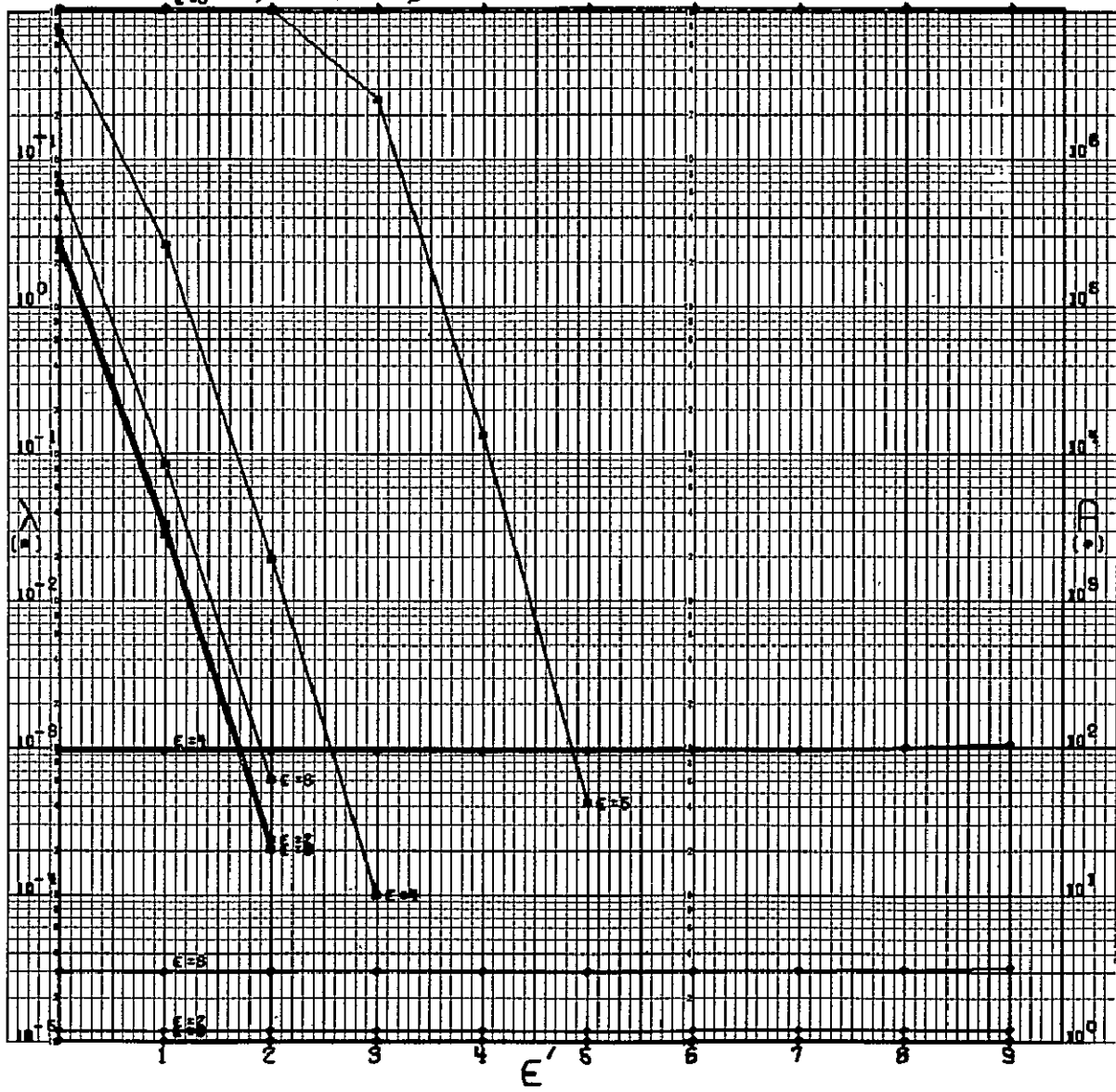
N = 24

CODE 111110101111001100100000
GFC STANDARD

$\epsilon = 5$ $\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPS, CODE 532, GFC)



N=24

CODE 111110101111001100100000

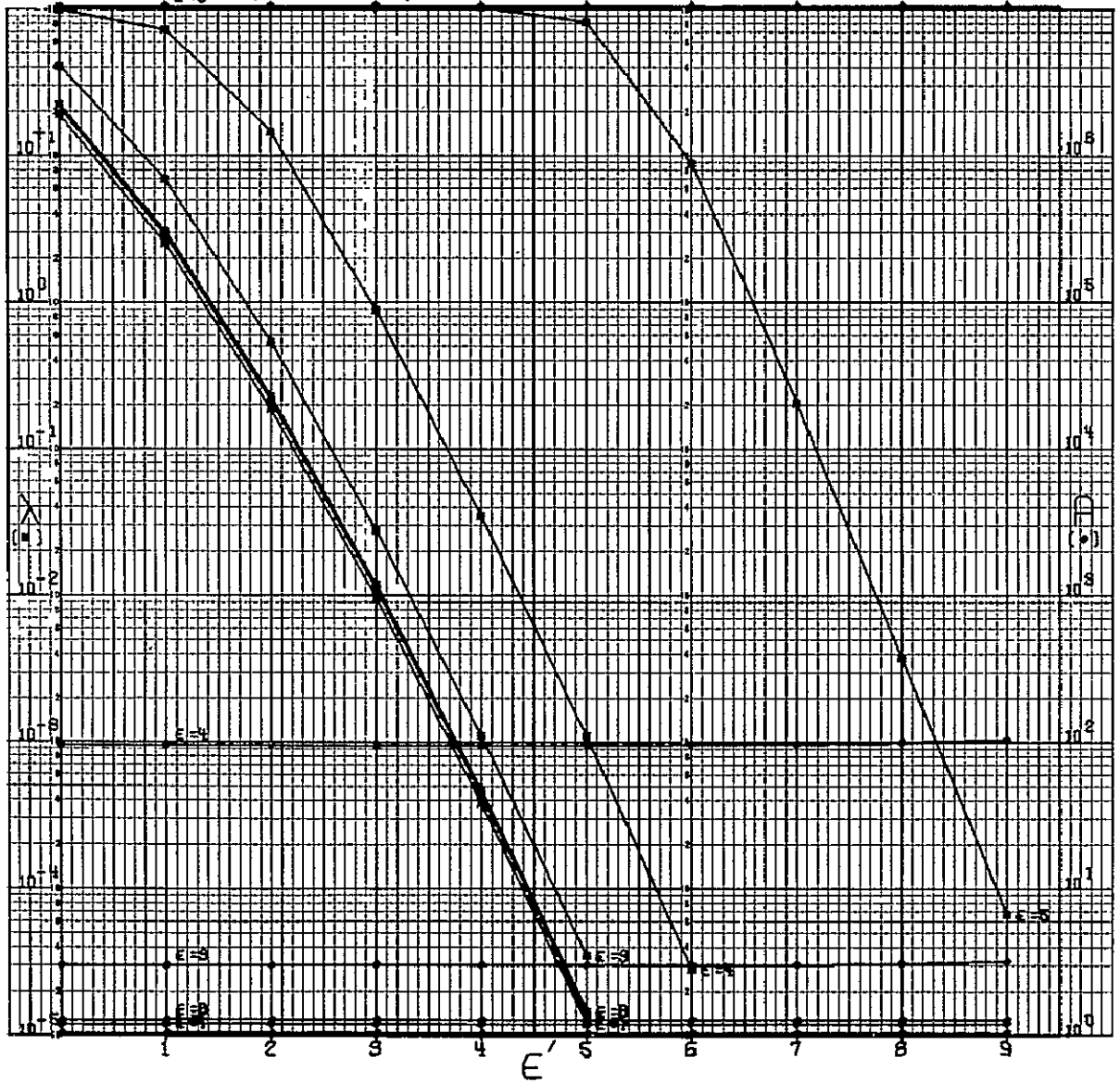
GSFC STANDARD

$\epsilon = 5$

$\eta = 0.0100$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 24

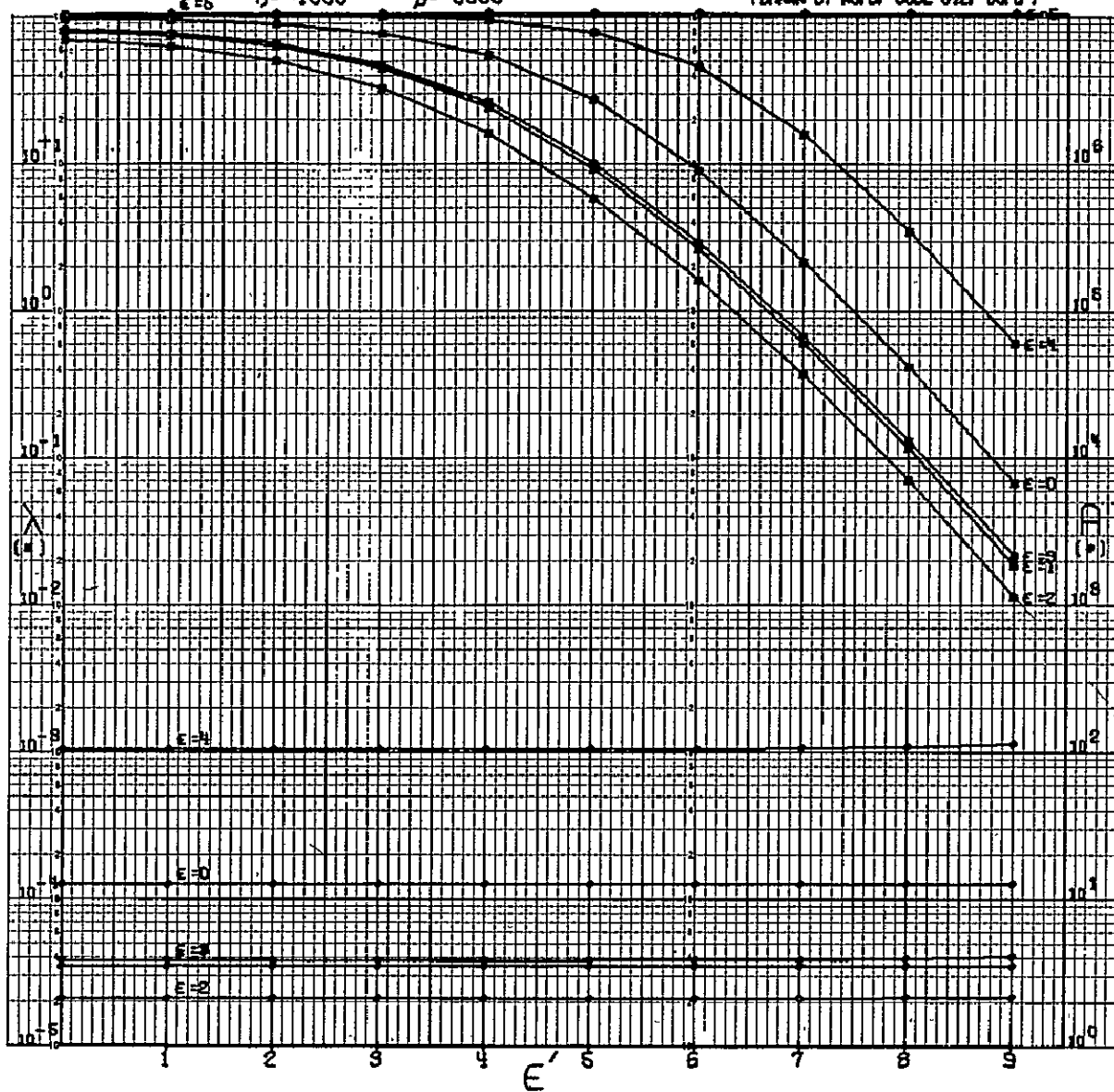
CODE 111110101111001100100000

GSFG STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROPB, CODE 512, GSFG)



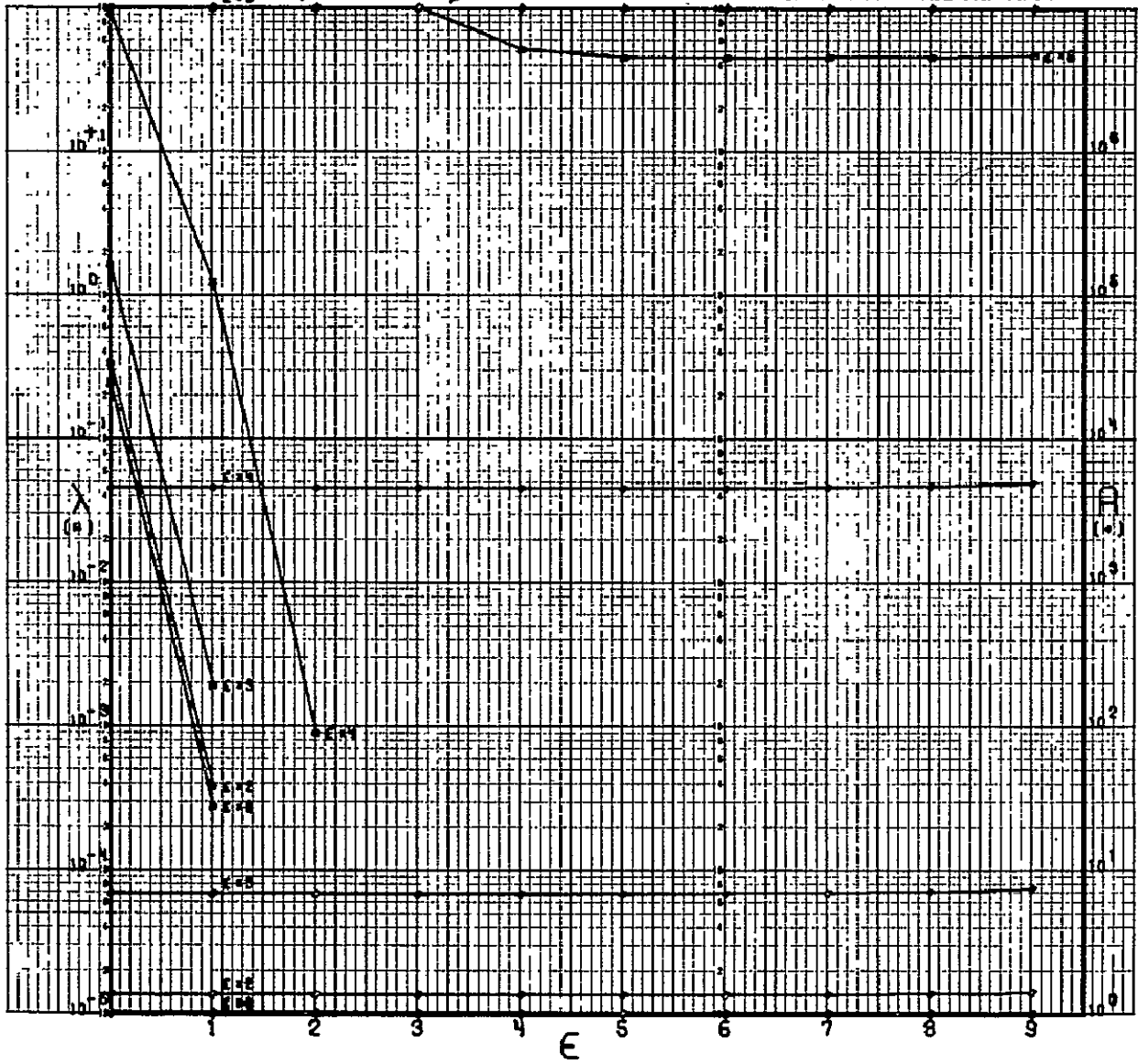
N = 24

CODE 111110101111001100100000
GSFC STRAUSERO

$\epsilon = 5$ $b = .0001$

$\beta = 10000$

(DRAWN BY ADPL CODE SYR. GSFC)



N = 24

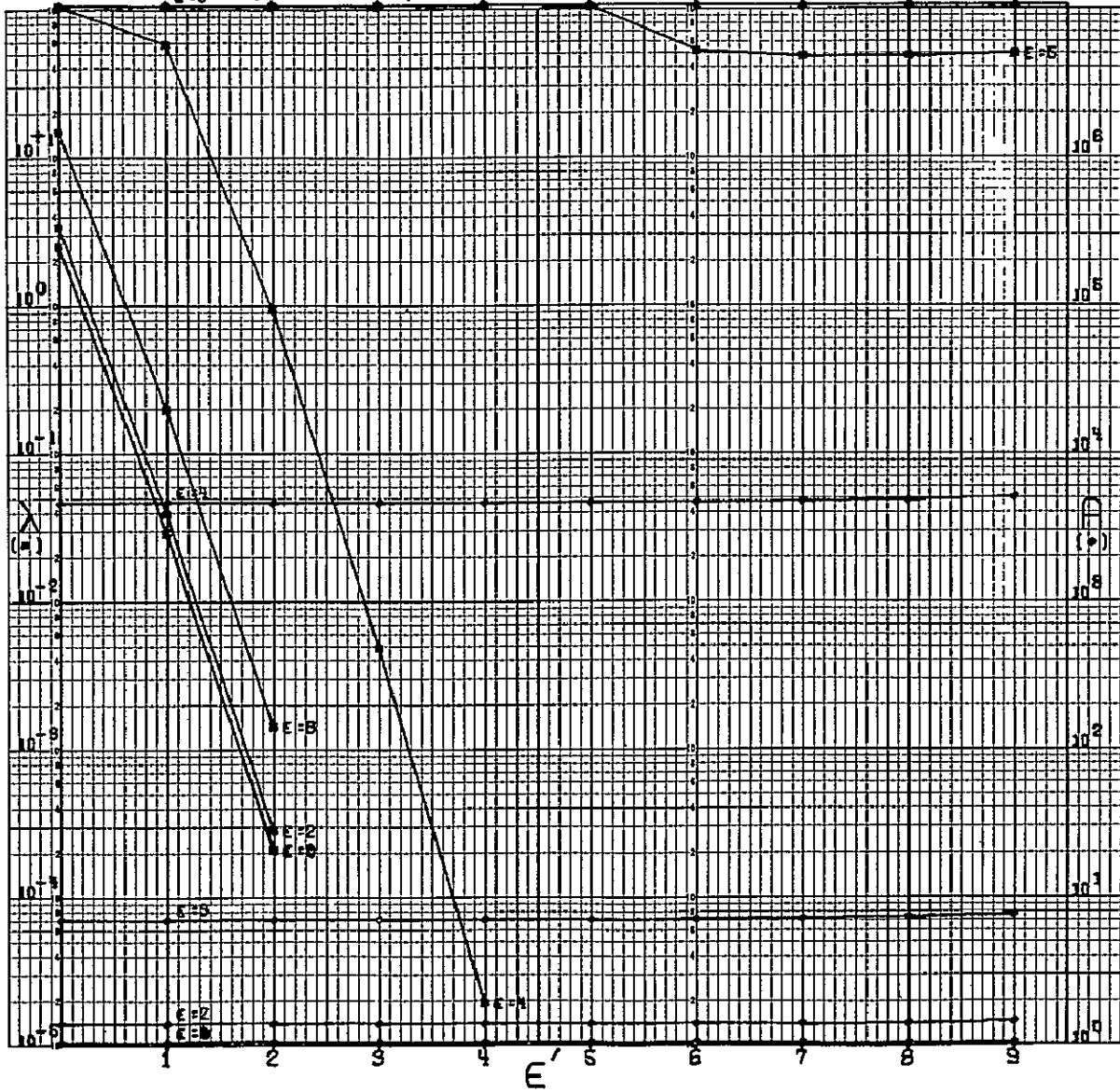
CODE 111110101111001100100000

GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=24

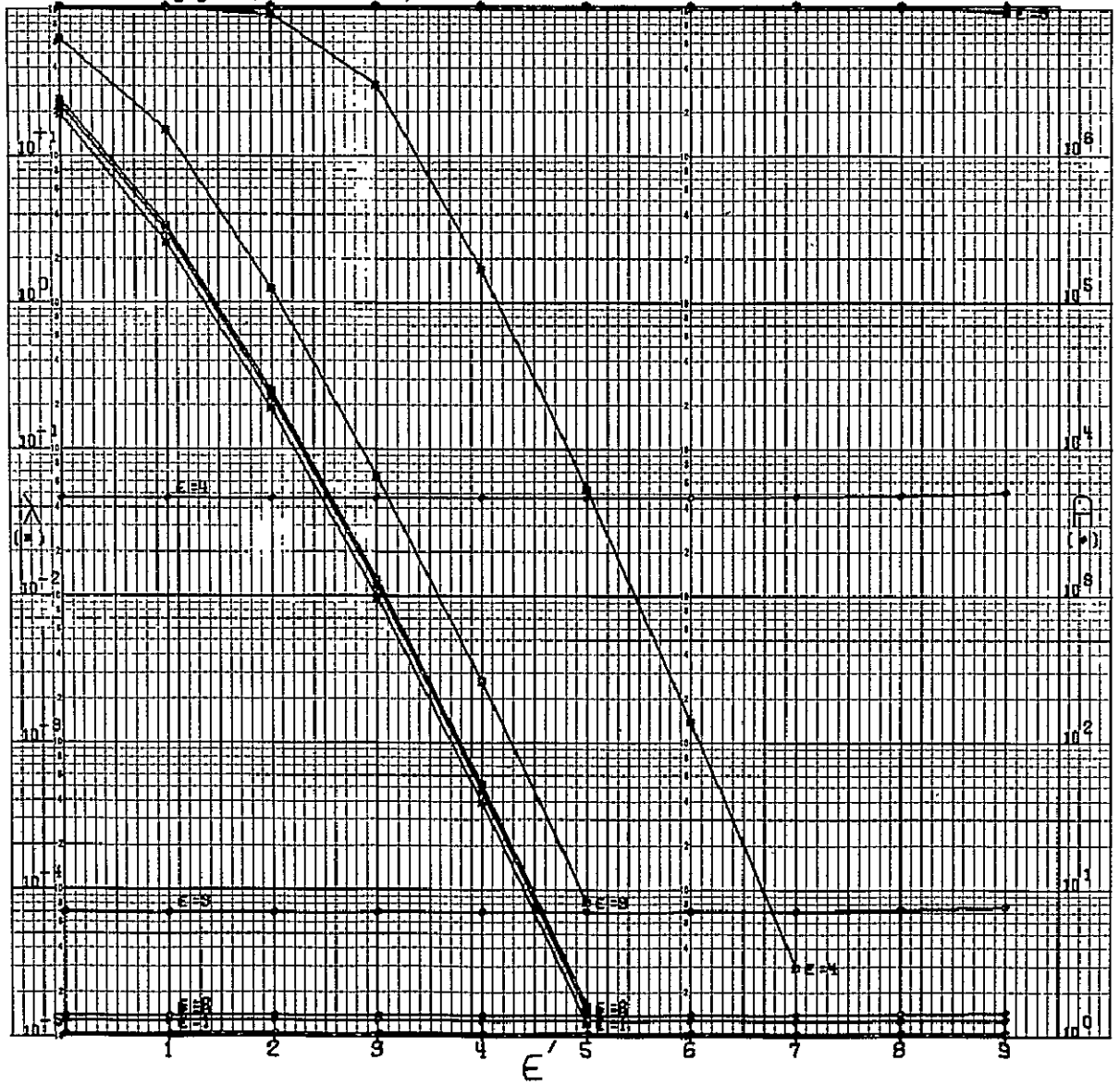
CODE 11111010111001100100000

GSFC STANDARD

$\epsilon = 5$ $\eta = 0.100$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



N° 24

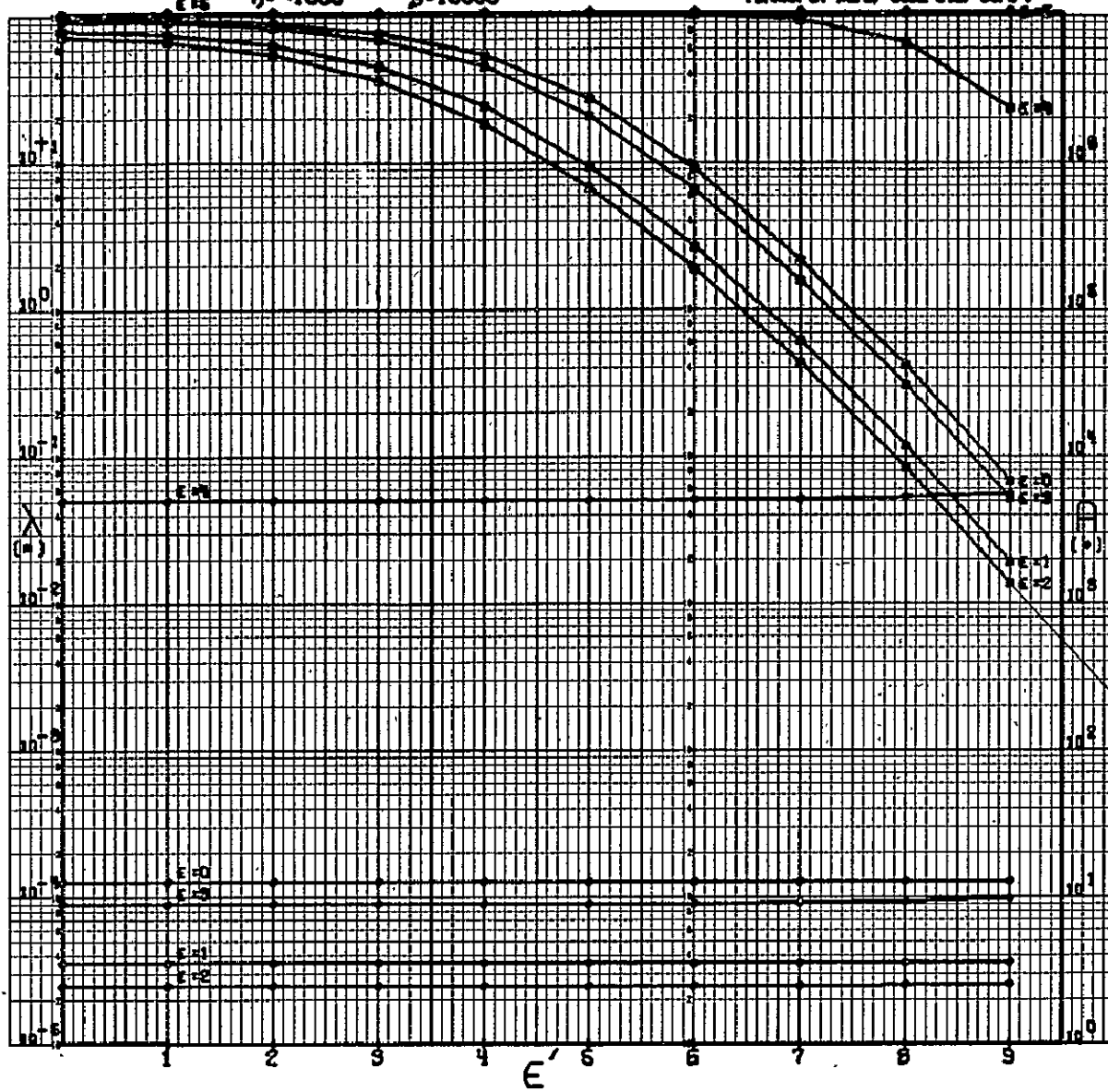
CODE 111110101111001100100000

SEFC STANDARD

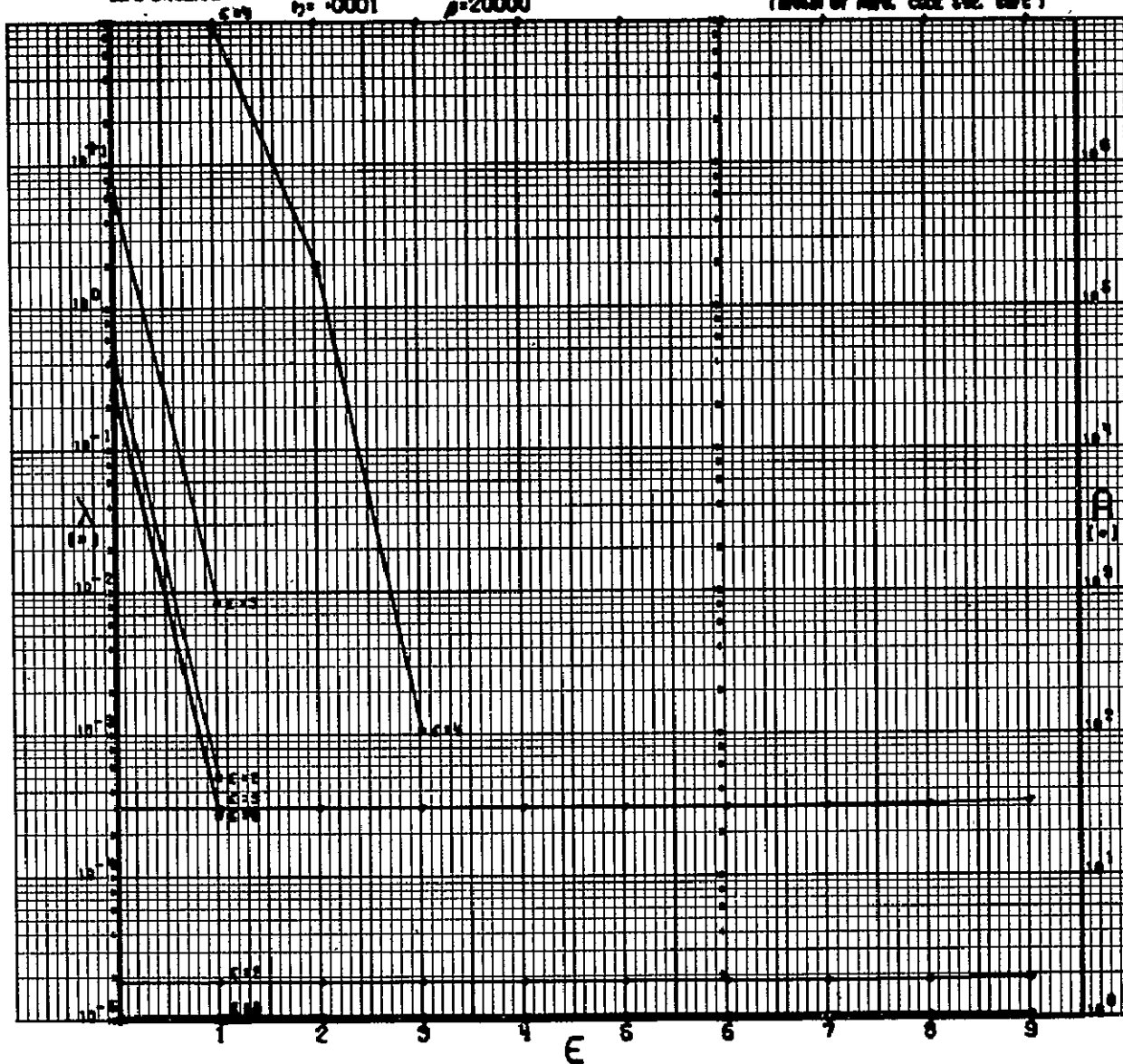
$\eta = -1000$

$\rho = 10000$

(SPREAD BY SEFC, CODE 612, SEFC)



CASE 1111-01011011010000
 CPC 000000



N:24

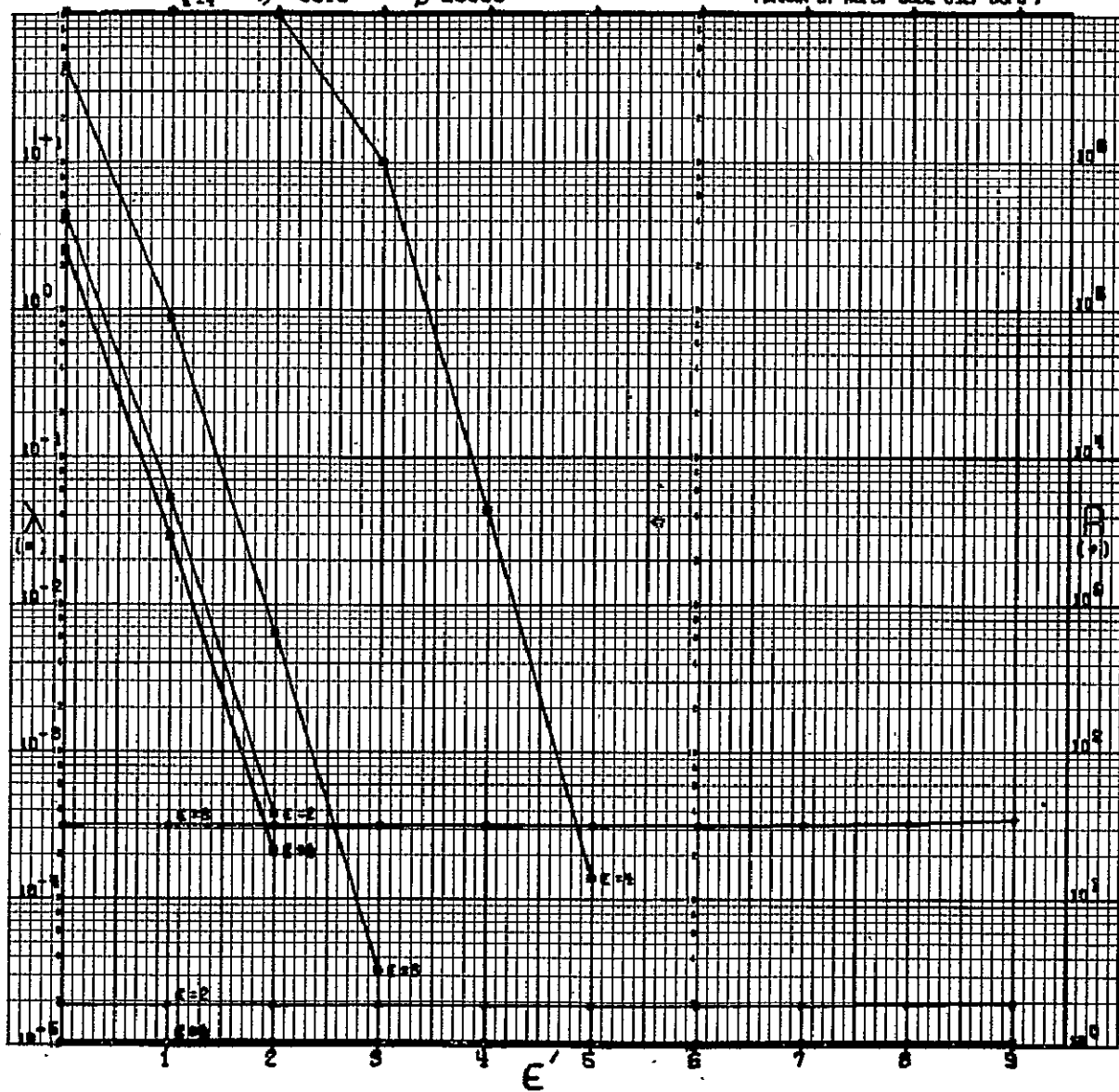
CODE 111110101111001100100000

GSFC STANDARD

$\epsilon = 4$ $\eta = .0010$

$\beta = 20000$

(DRAWN BY RCFE, CODE 512, GSFC)



A-576

N = 24

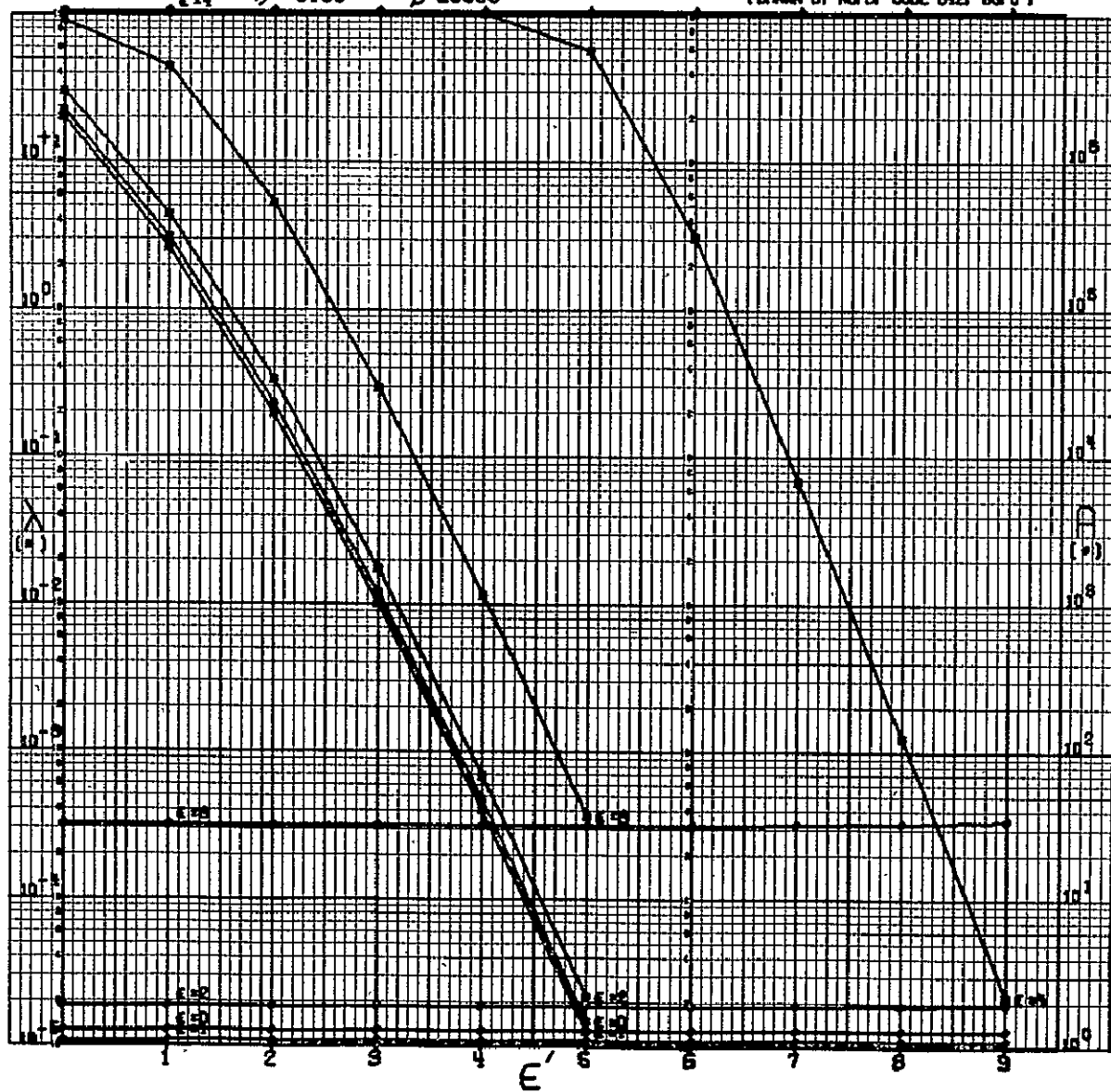
CODE 111110101111001100100000

GOFC STANDARD

$\epsilon = 1$ $\eta = 0.100$

$\beta = 20000$

(DRAWN BY ROPEL CODE 642, GOFC)



N=24

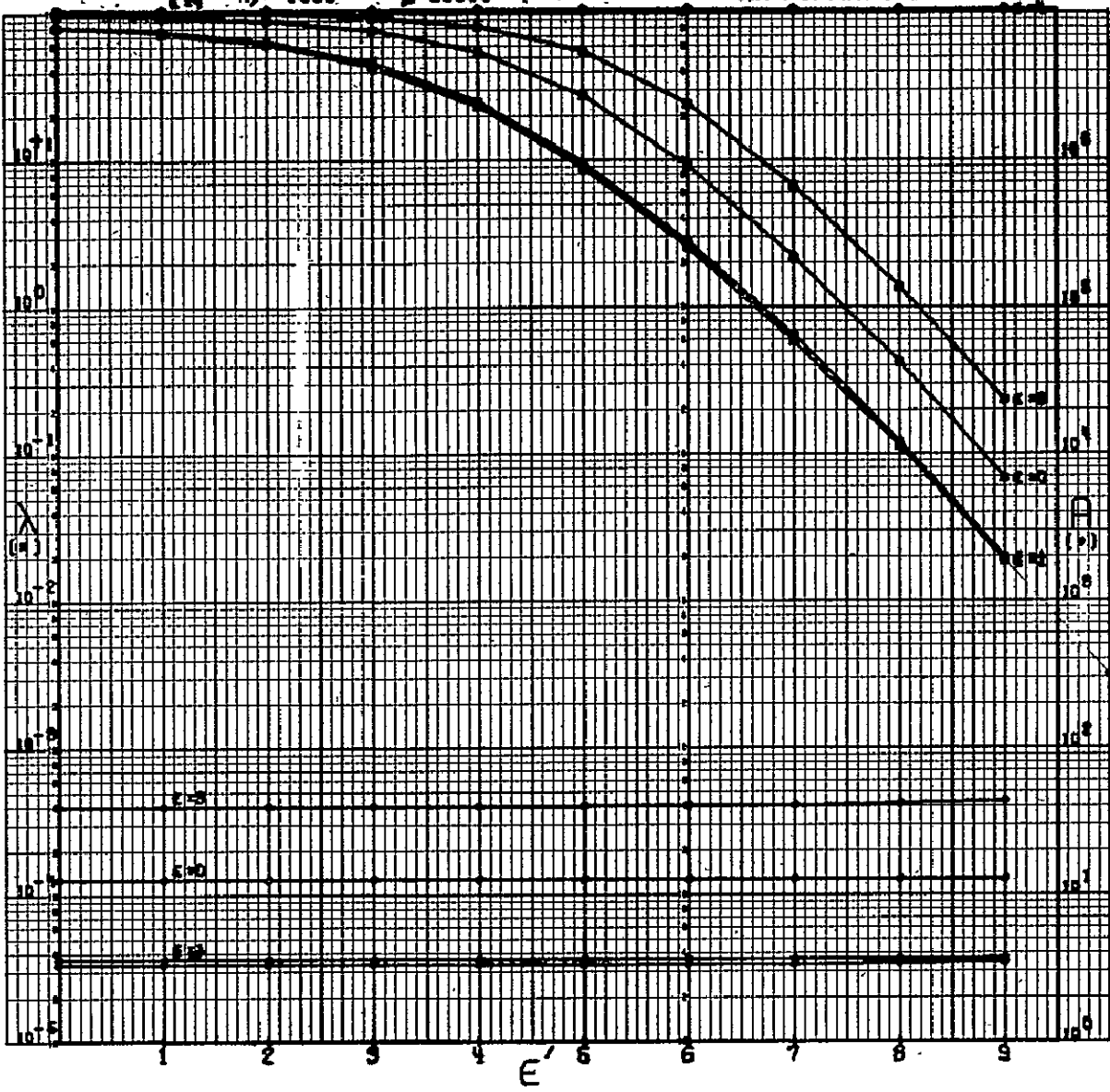
CDC 11110101111001100100000

GEFC STANDARD

$\eta = 1000$

$\beta = 20000$

(FORM BY SOPH. CODE 672, GFC)



$$N = 25$$

N = 25

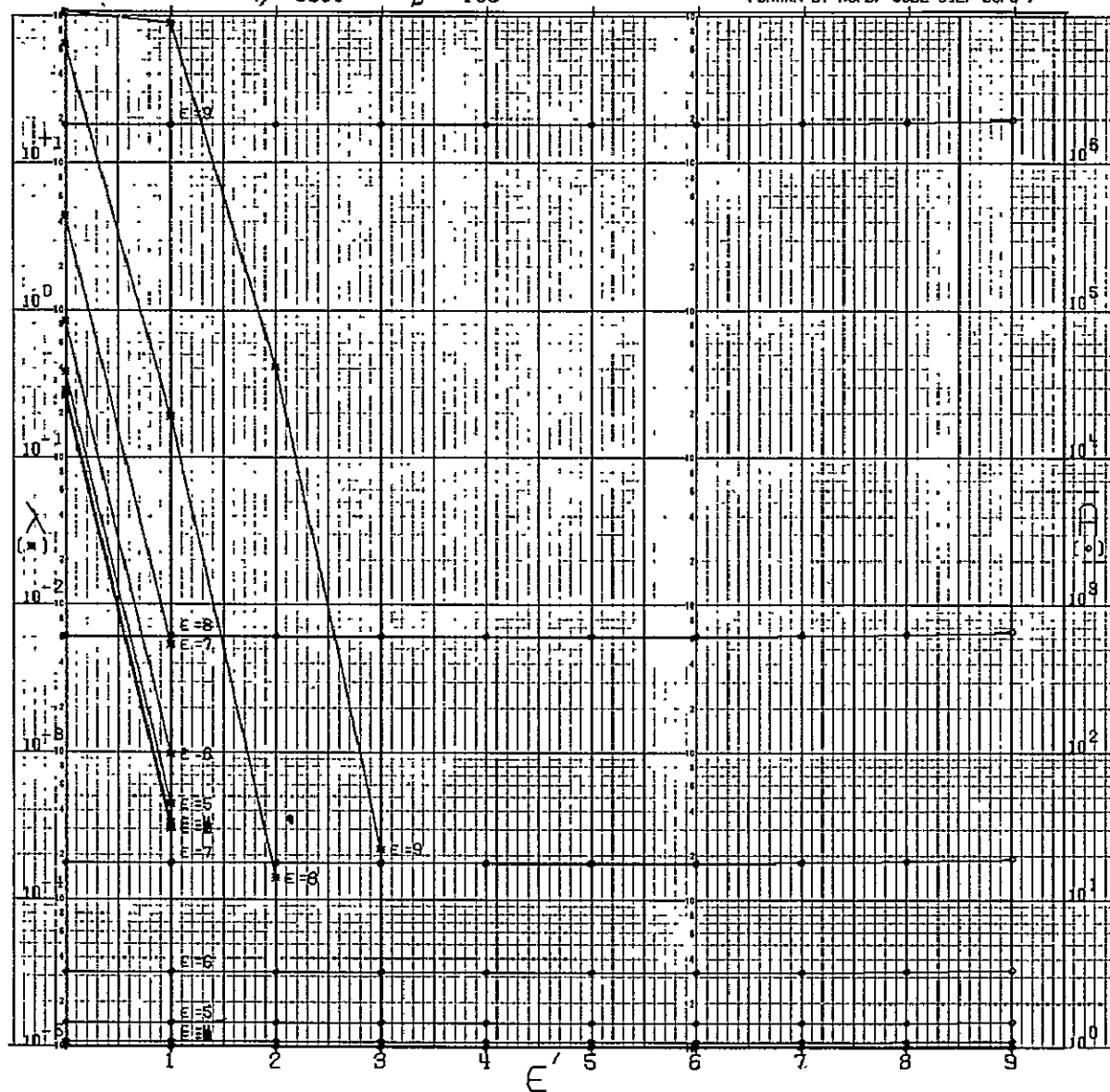
CODE 1111100101101110001000000

GSFC STANDARD

$\eta = .0001$

$\beta = 100$

(DRAWN BY RCPB, CODE 542, GSFC)



N=25

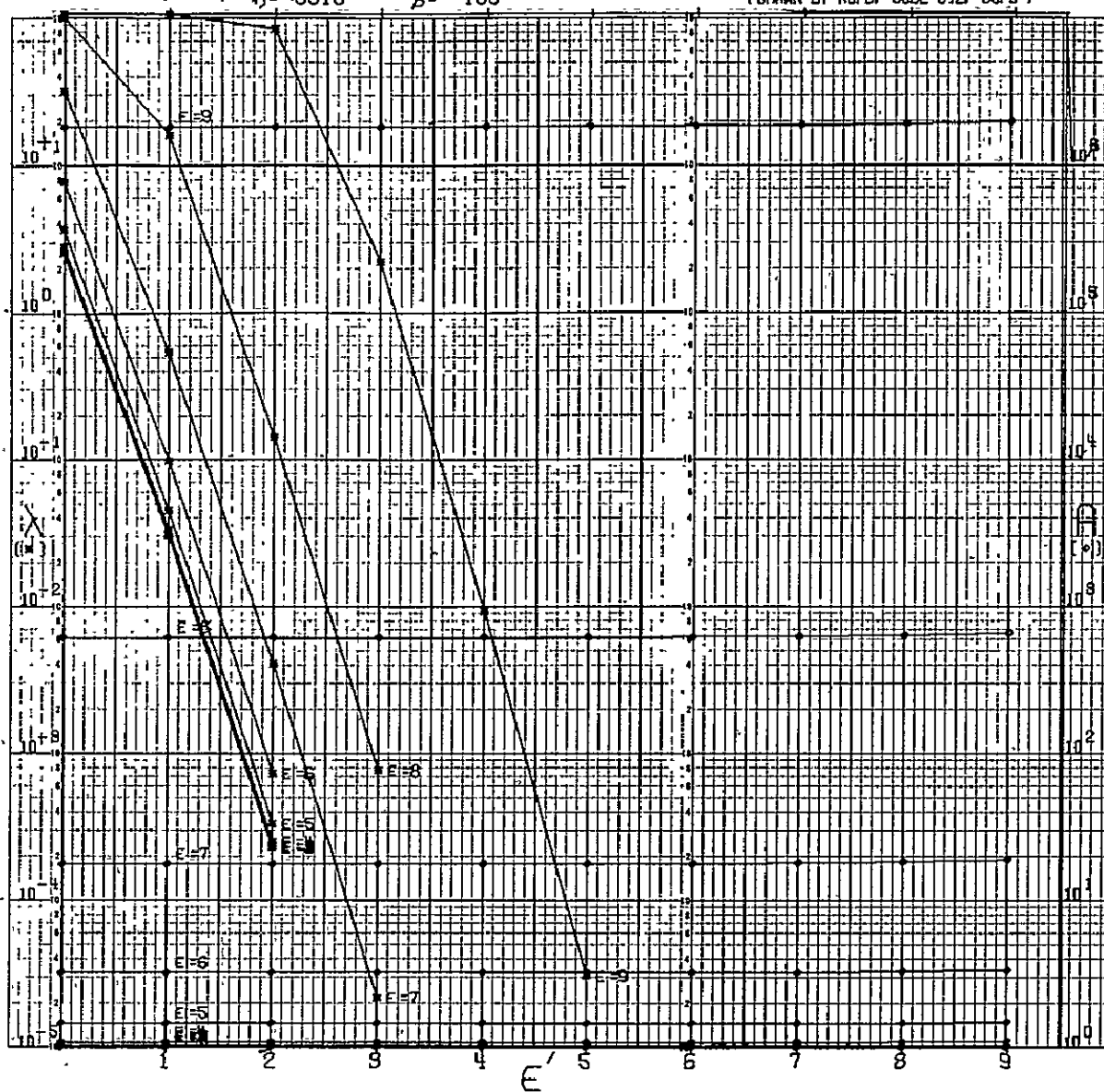
CODE 1111100101101110001000000

GSFC STANDARD

$\eta = 0.0010$

$\beta = 100$

(DRAWN BY RUPB, CODE 542, GSFC)



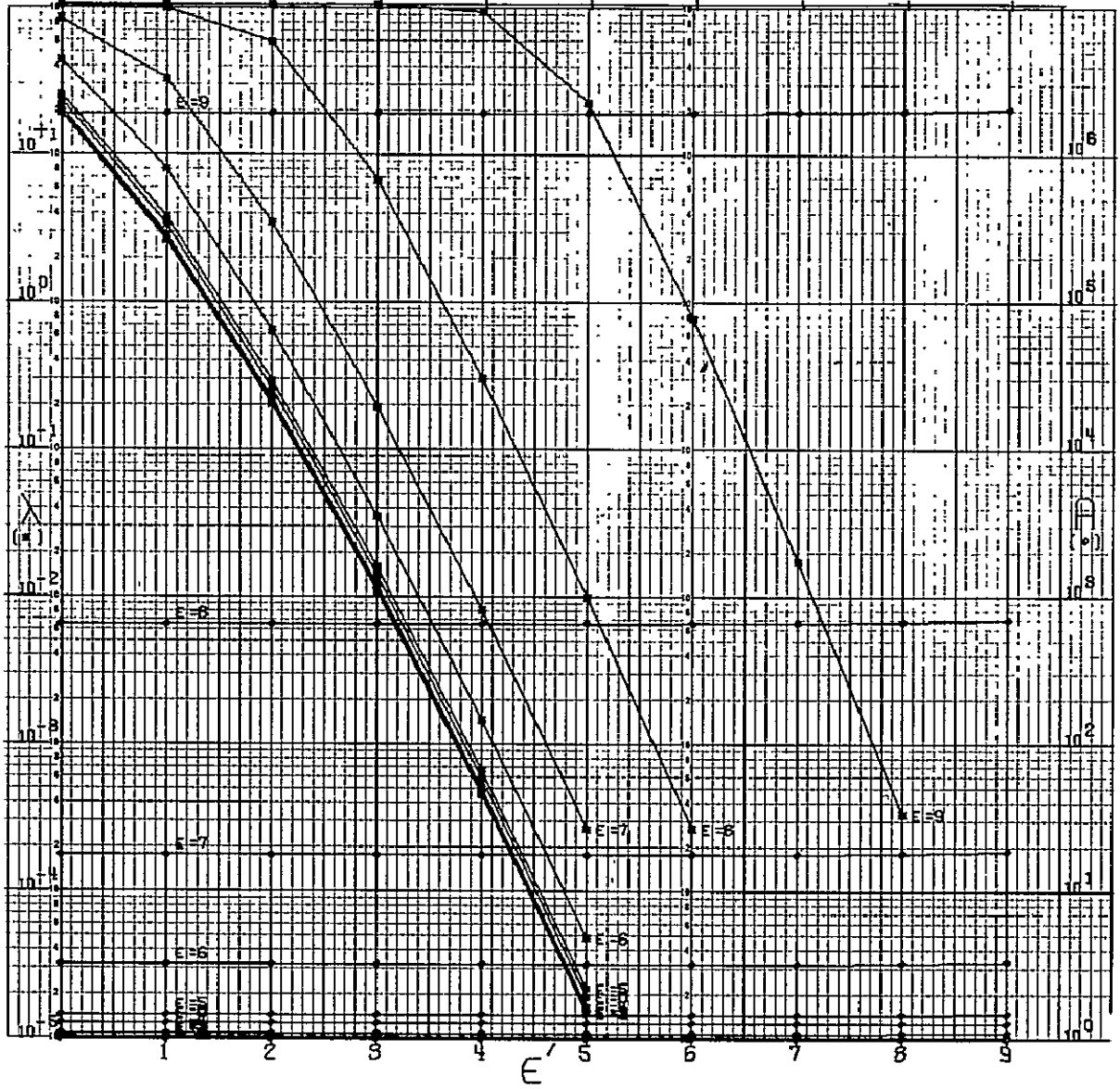
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 25

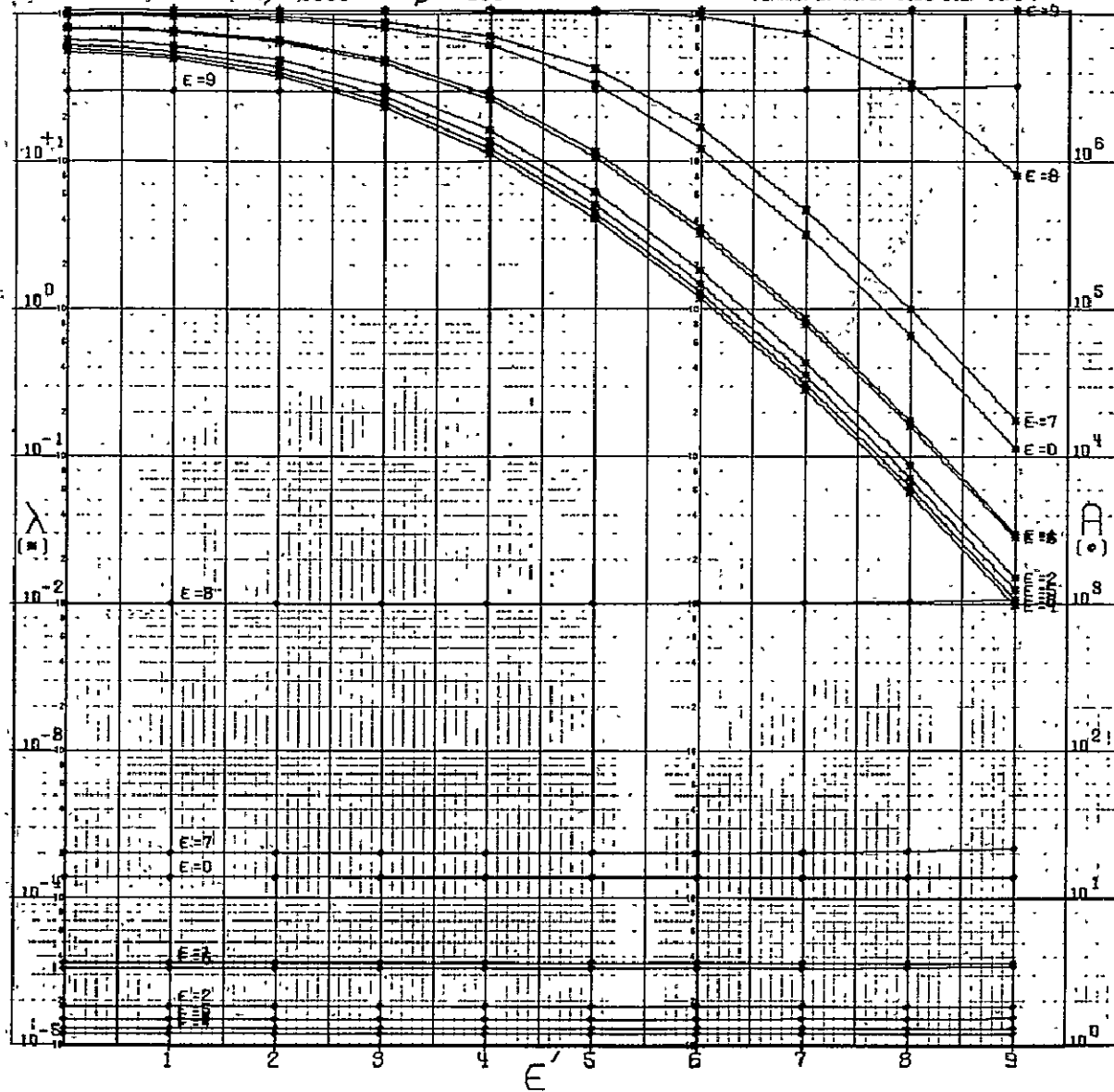
CODE 1111100101101110001000000

GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY AOPB, CODE 542, GSFC)



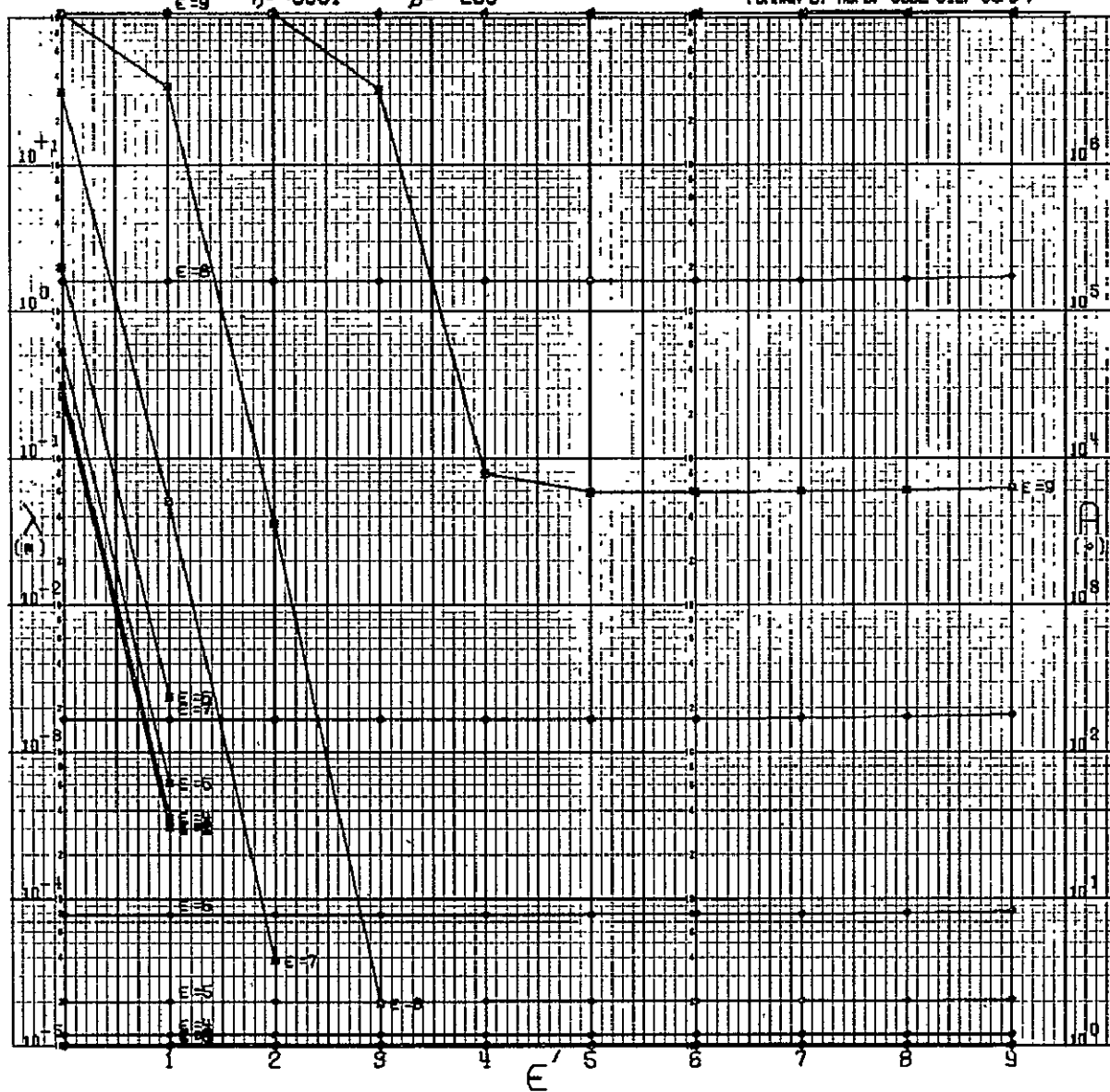
N = 25

CODE 1111100101010110001000000
GSFC STANDARD

$\eta = +0001$

$\beta = 200$

(DRAWN BY ROPB, CODE 592, GSFC)



A-583

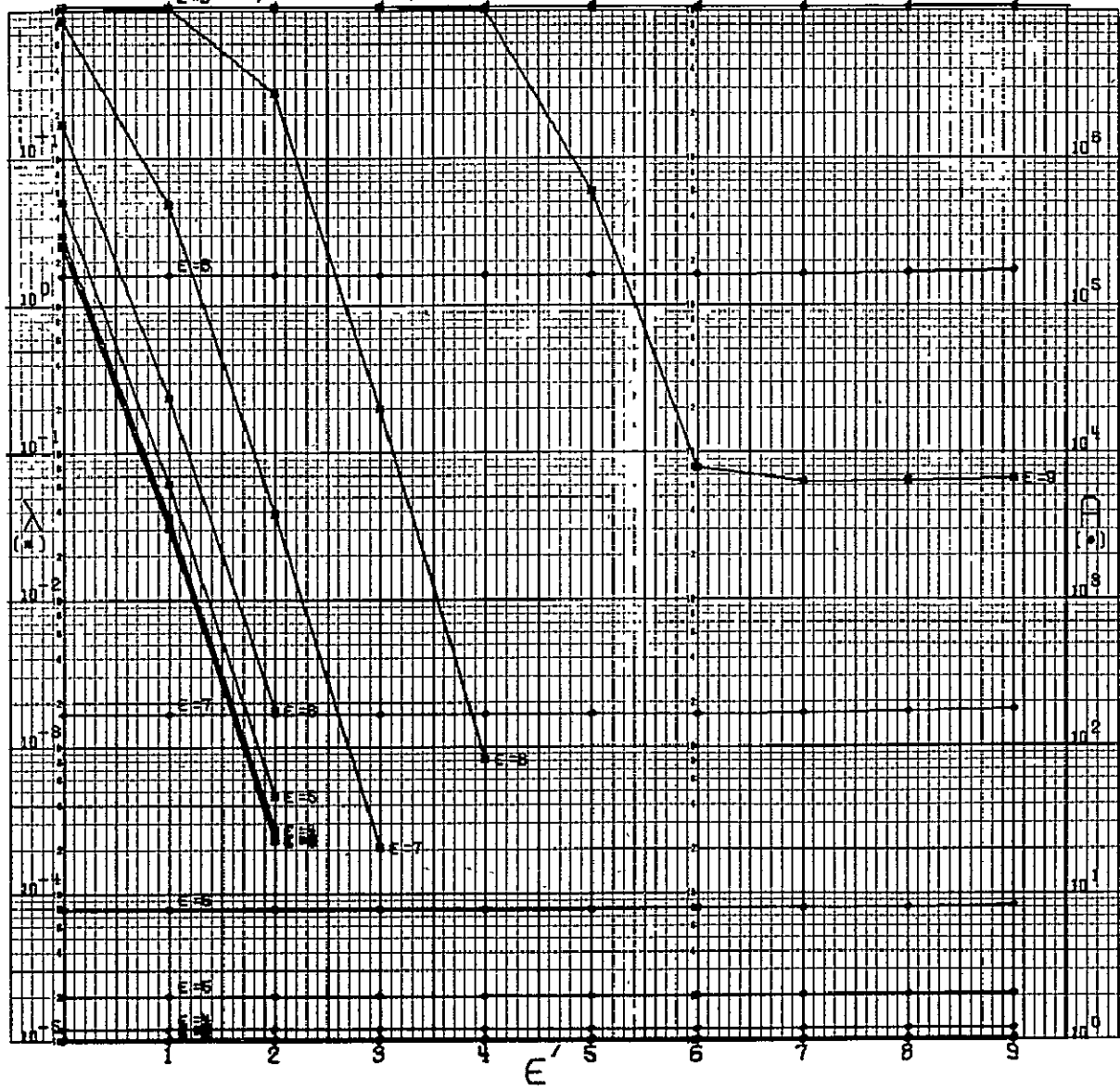
N=25

CSOE 1111100101101110001000000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



A-584.

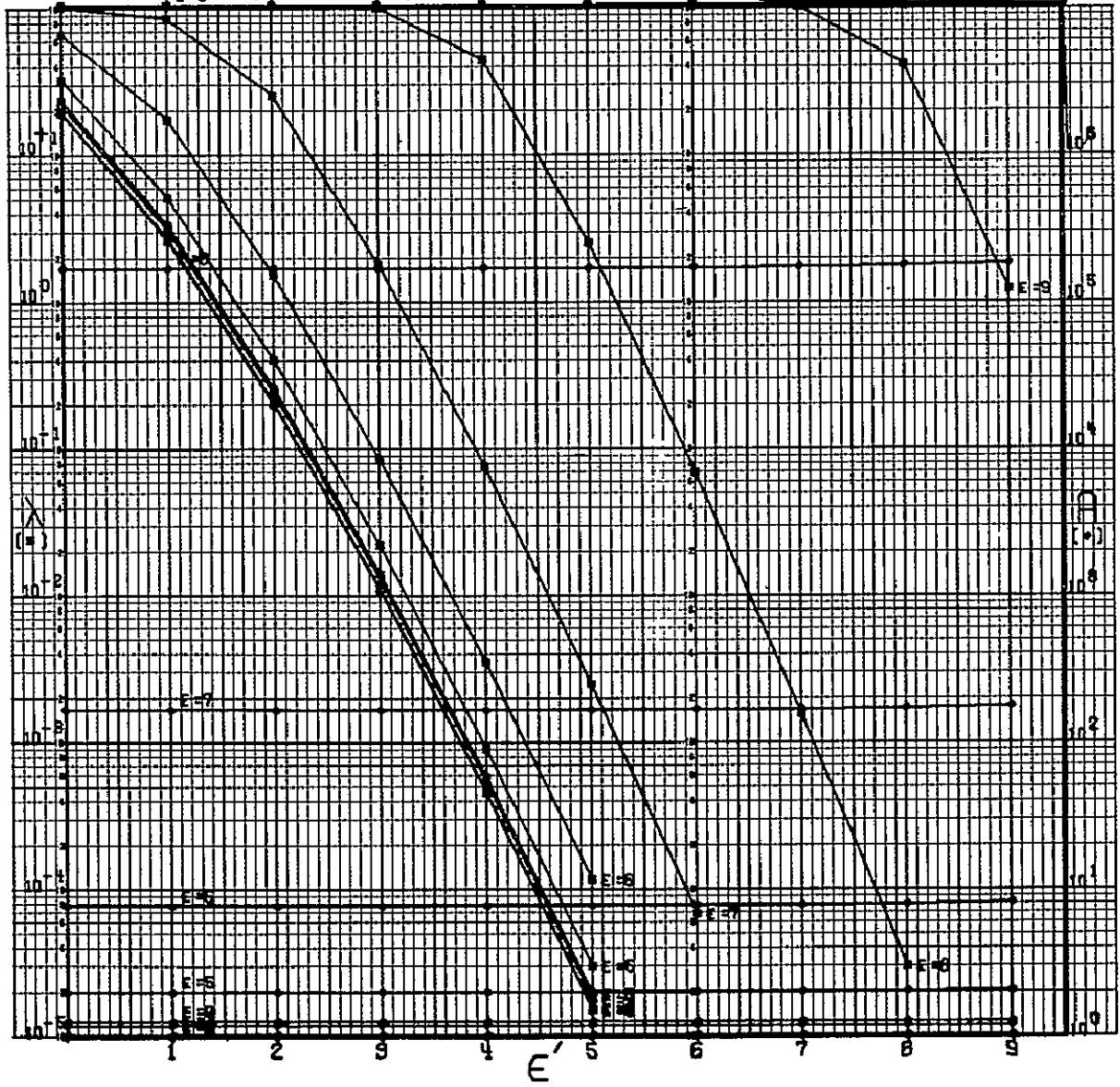
N = 25

CODE 111110010101110001000000
GSFC STANDARD

$\epsilon = 9$ $\eta = 0.100$

$\beta = 200$

(DRAWN BY ROPB, CODE 512, GSFC)



N=25

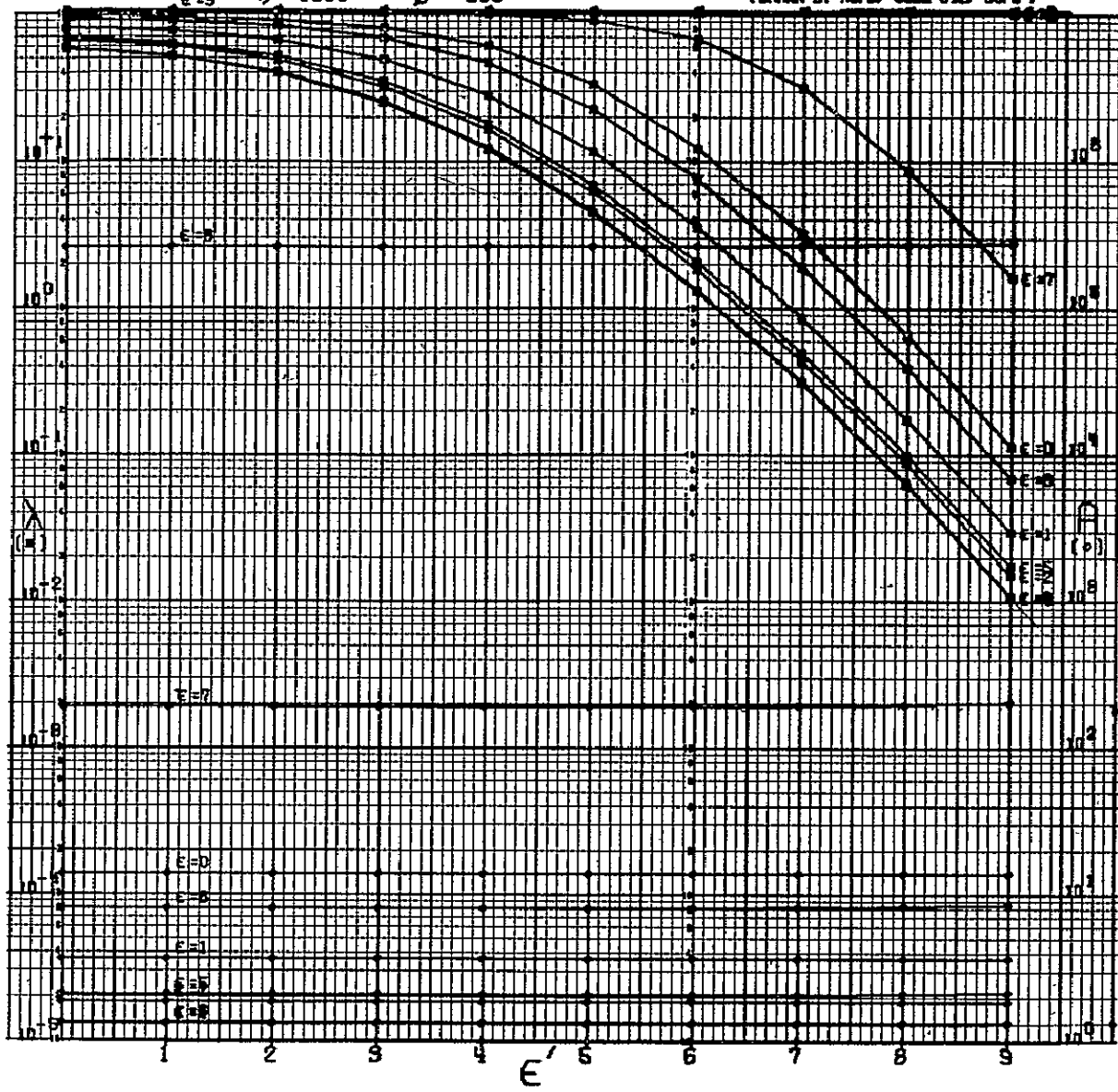
CODE 1111100101101110001000000
GDFC STANDARD

$\epsilon = 9$

$\eta = +1000$

$\beta = 200$

(DRAWN BY ROPE CODE 692, GDFC)



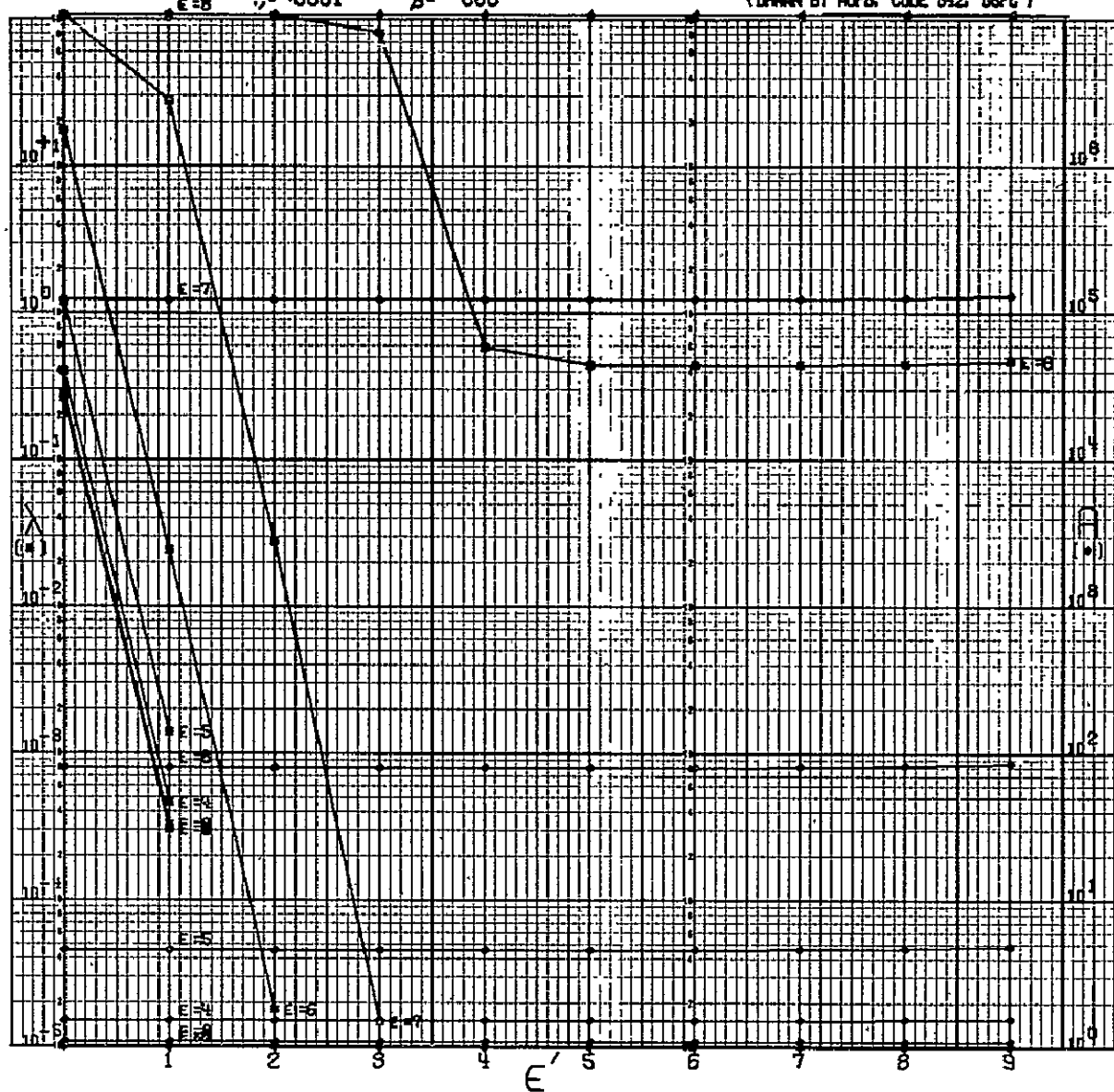
C80E 111110010110111000100000
GEFC STANDARD

GGFC STANDARD

$\sigma = -0.001$

$\beta = 500$

(DRAIN BY ROPS, CODE 542, GSFC)



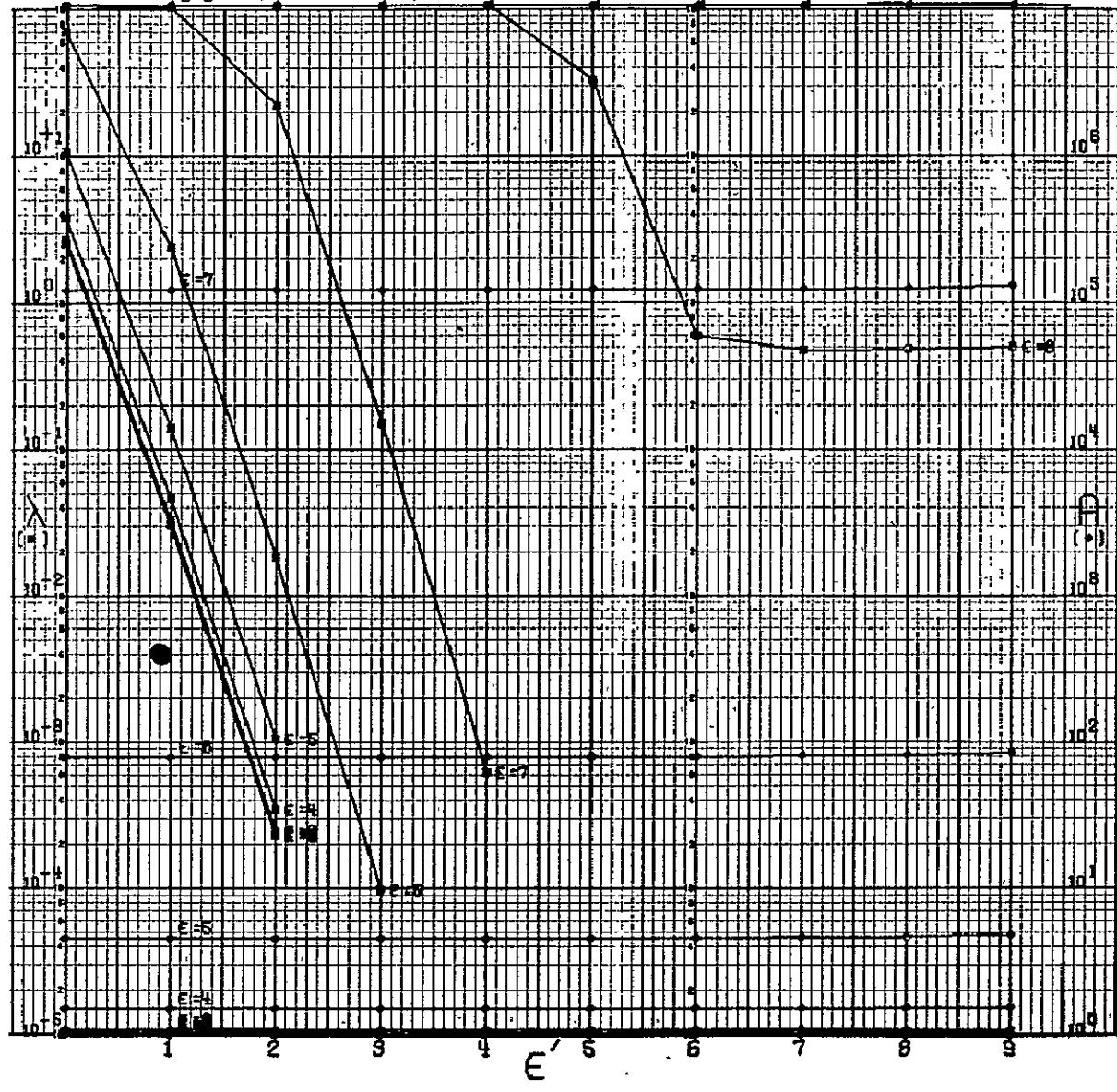
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\epsilon = 8$ $\eta = 0010$

$\beta = 500$

(DRAWN BY AOPB, CODE 512, GSFC)



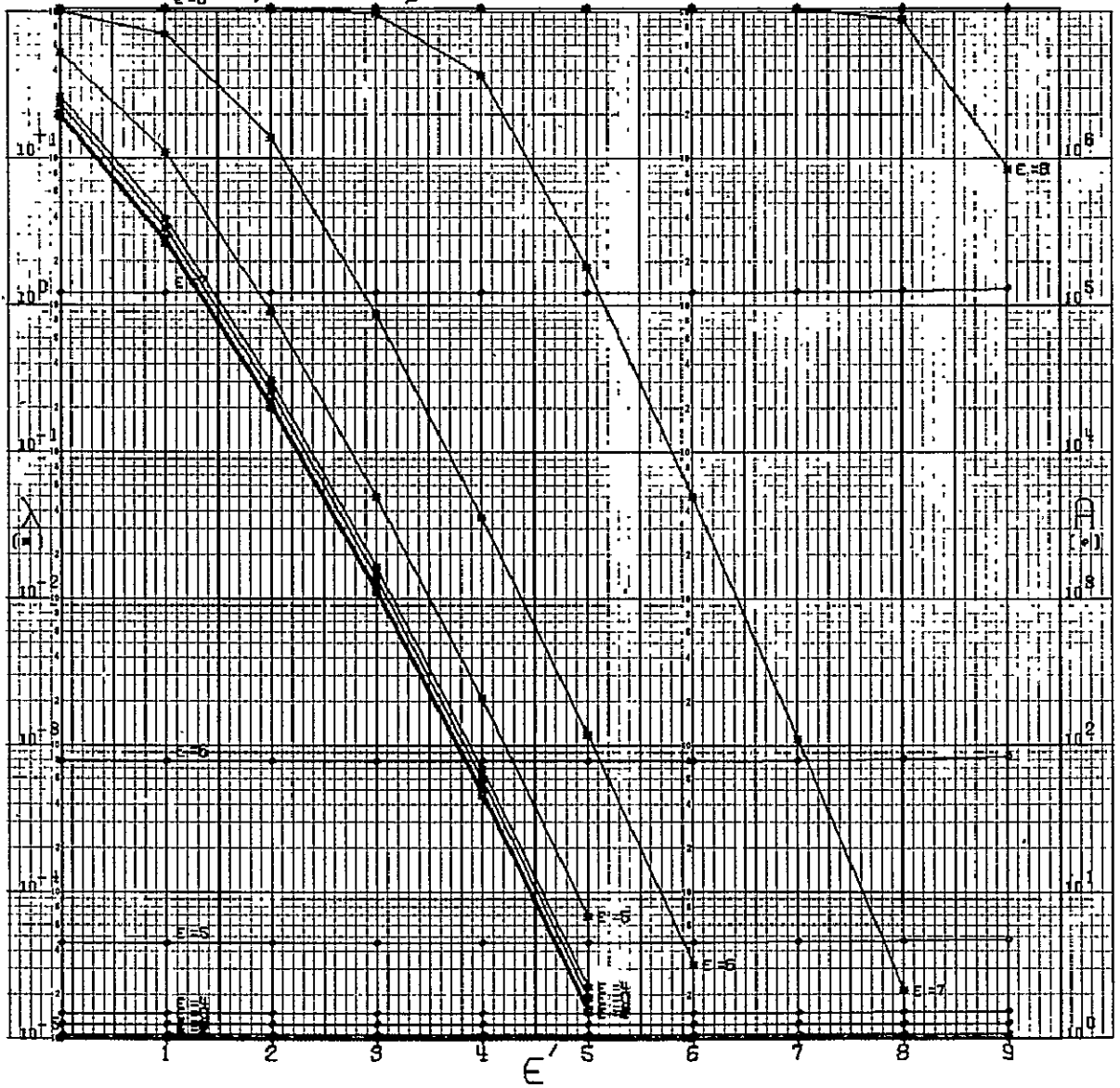
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



N = 25

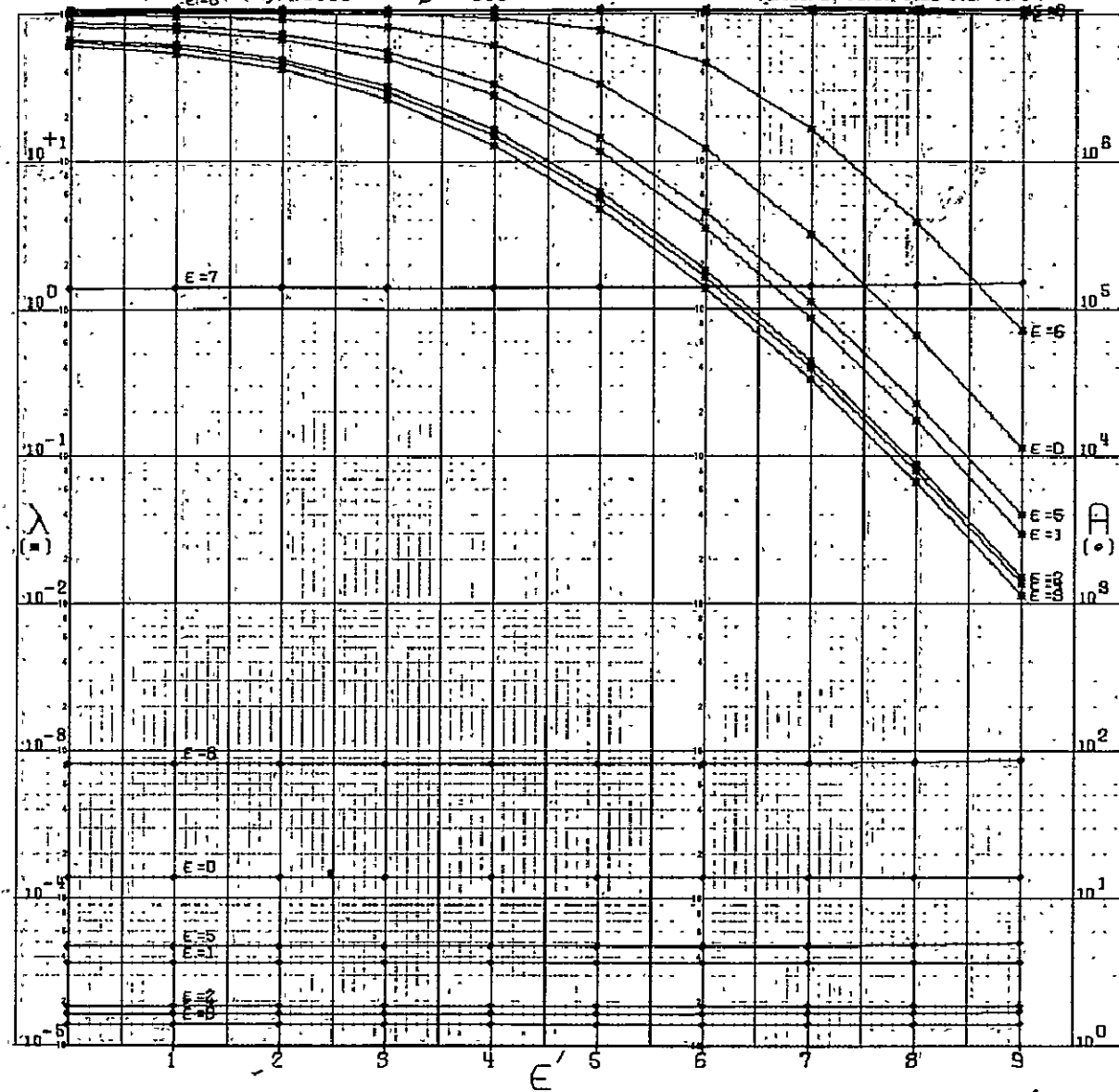
CODE 1111100101101110001000000

GSFC STANDARD

$\epsilon = 8$ $b = 1000$

$\beta = 500$

(DRAWN BY ROPB, CODE 592, GSFC)



A-590

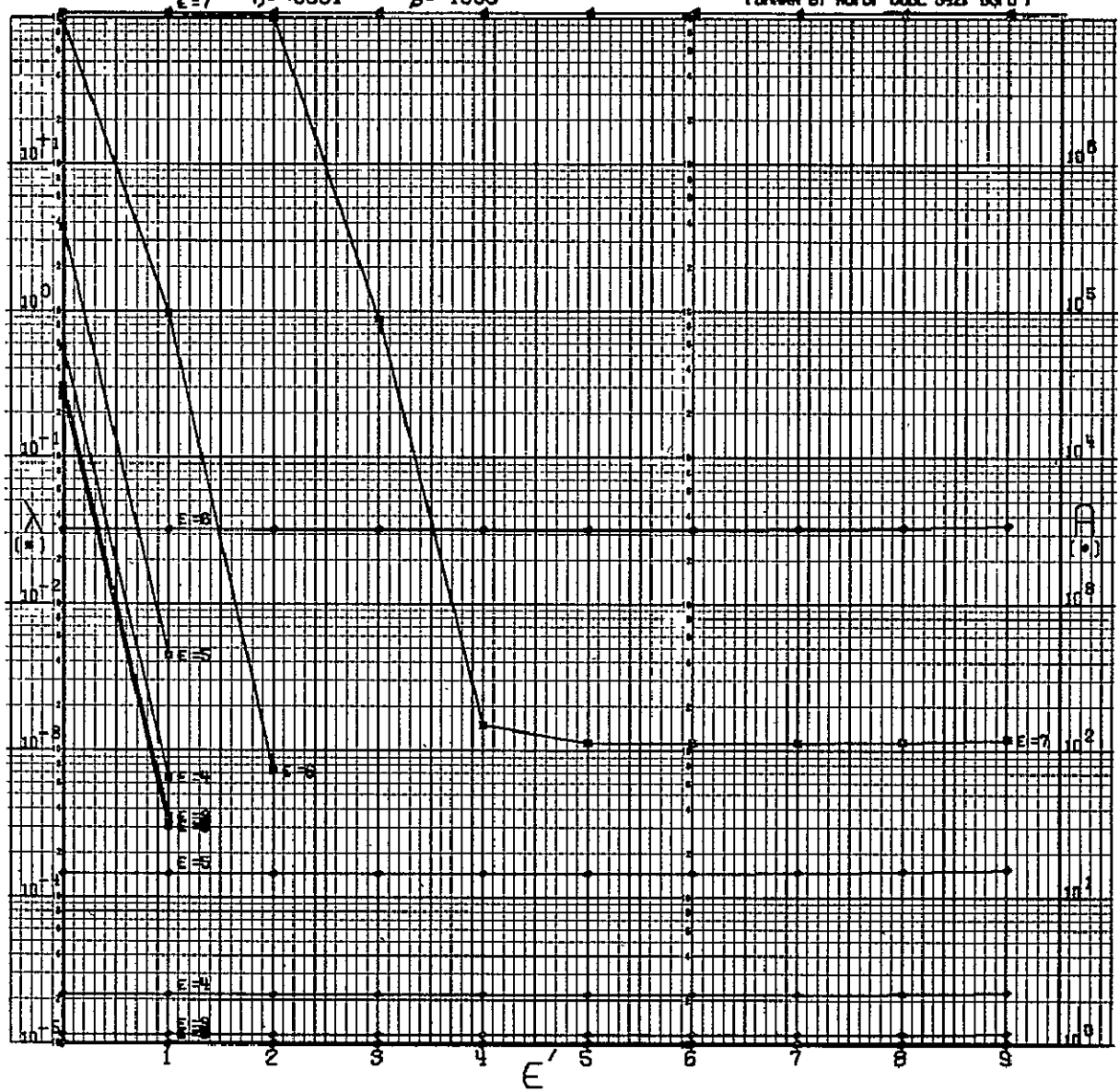
CODE 111110010110111000100000

GSFC STANDARD

$\eta = +0001$

 $\beta = 1000$

(DRAWN BY ROPS, CODE 542, G3FC)



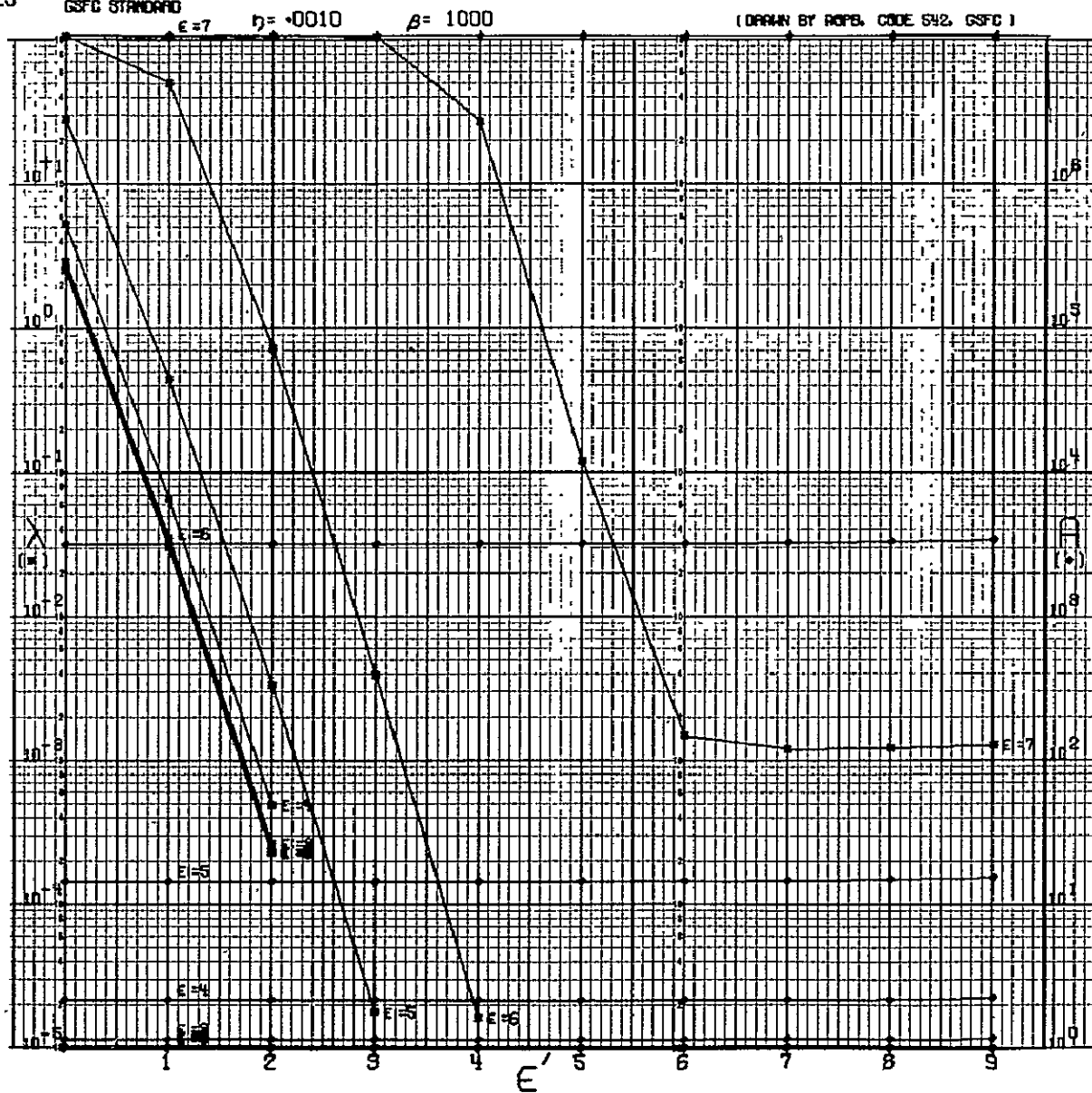
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-592

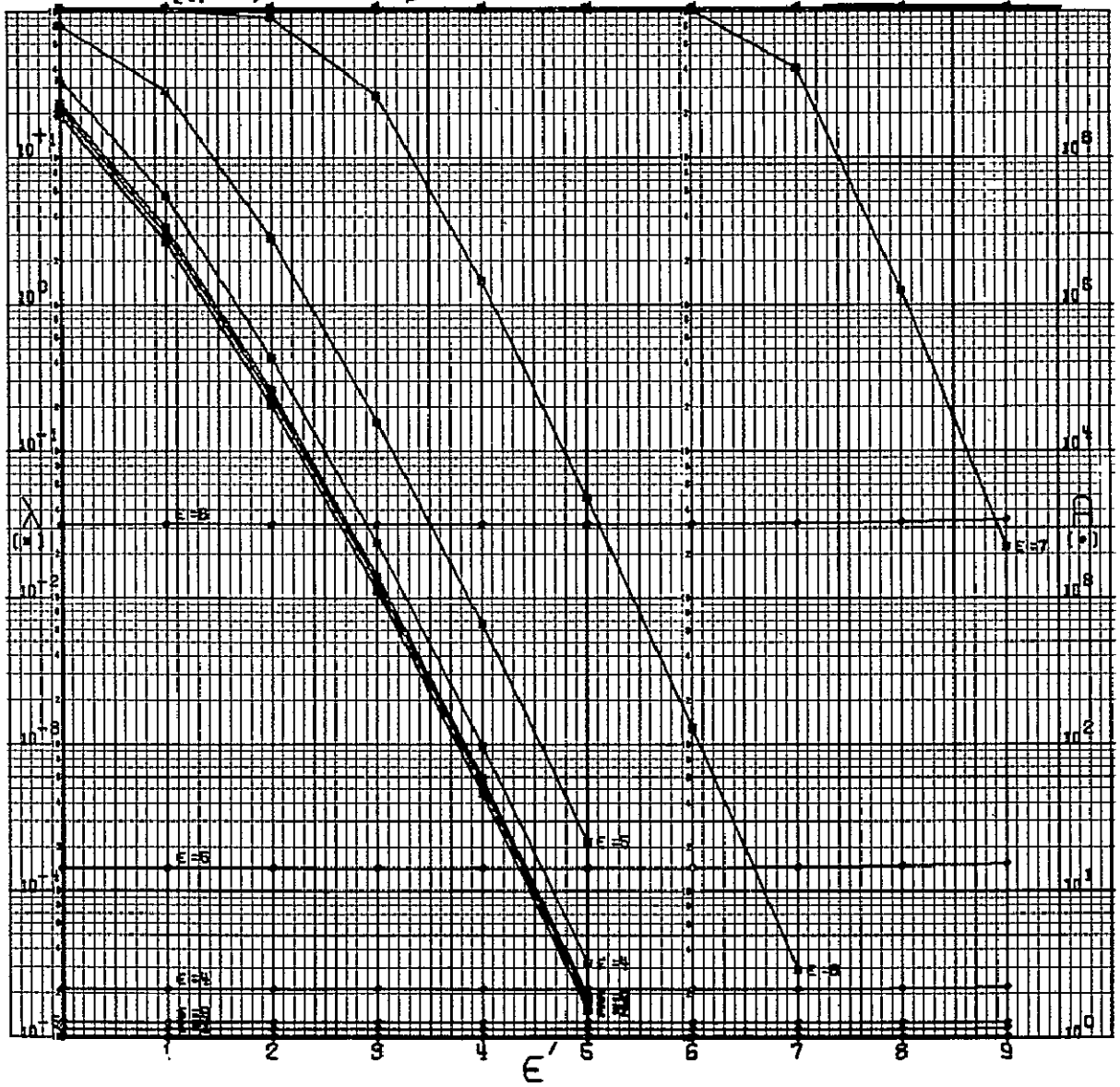
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\epsilon = 7$ $\eta = .0100$

$\beta = 1000$

(DRAWN BY ROPEL CODE 612, GSFC)



N=25

CODE 1111100101101110001000000

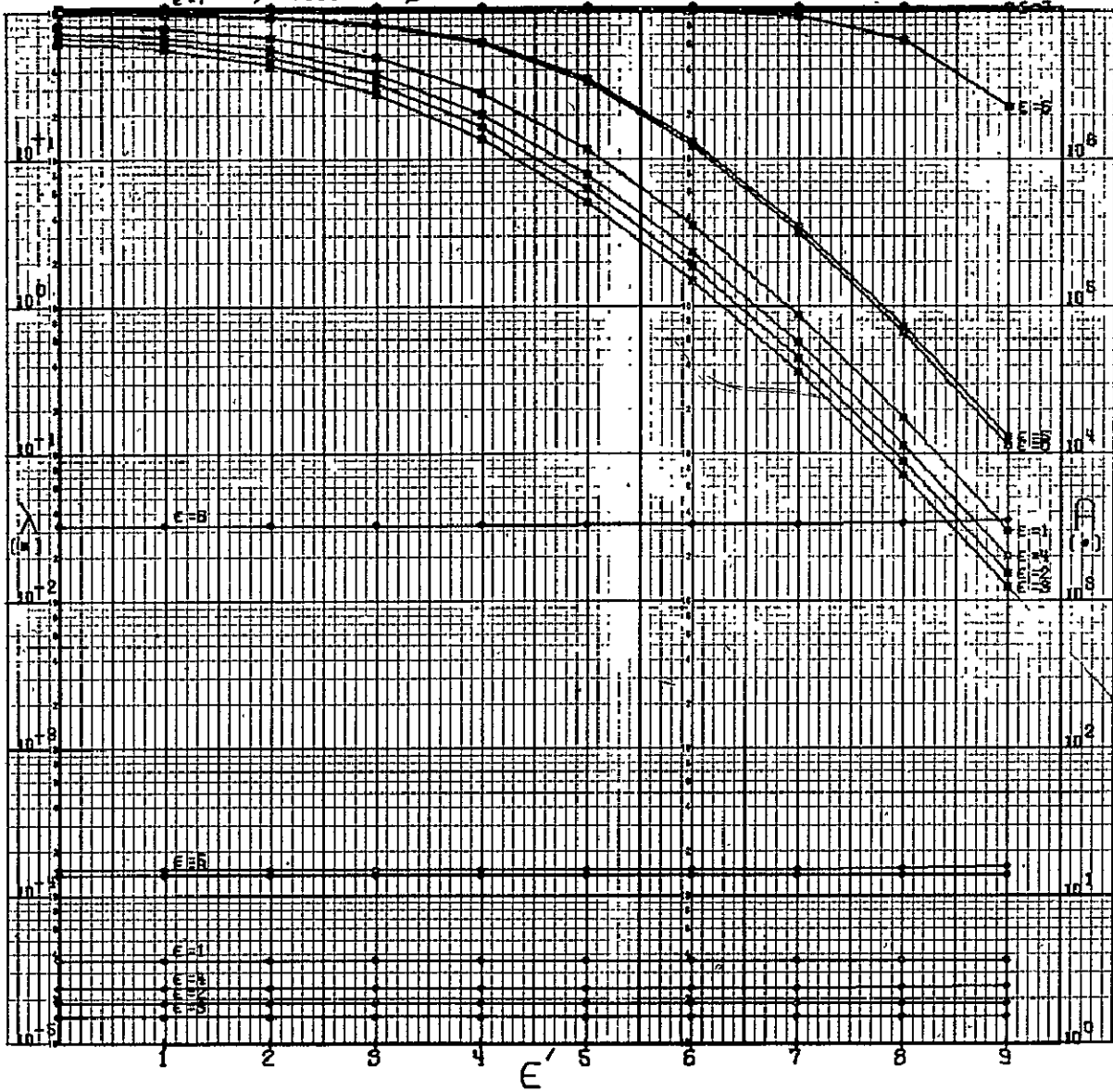
DSFC STANDARD

$\epsilon = 7$

$\eta = 1000$

$\beta = 1000$

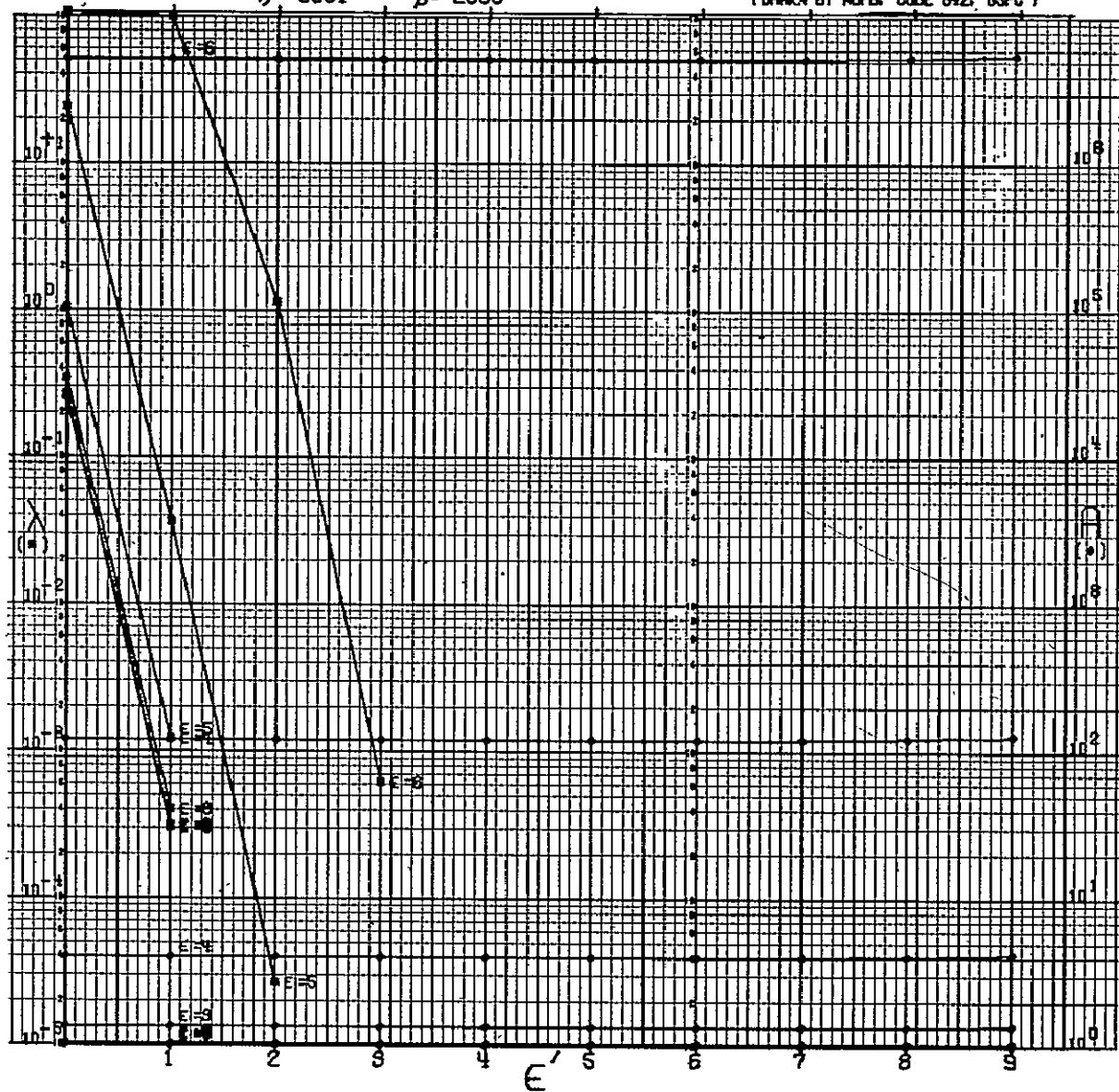
(DRAWN BY REPS, CODE 592, DSFC)



CODE 111110010110111000100000
GSFC STANDARD

 $\beta = 2000$

(DRAWN BY ROPEL CODE 542, GSFC)



A-595

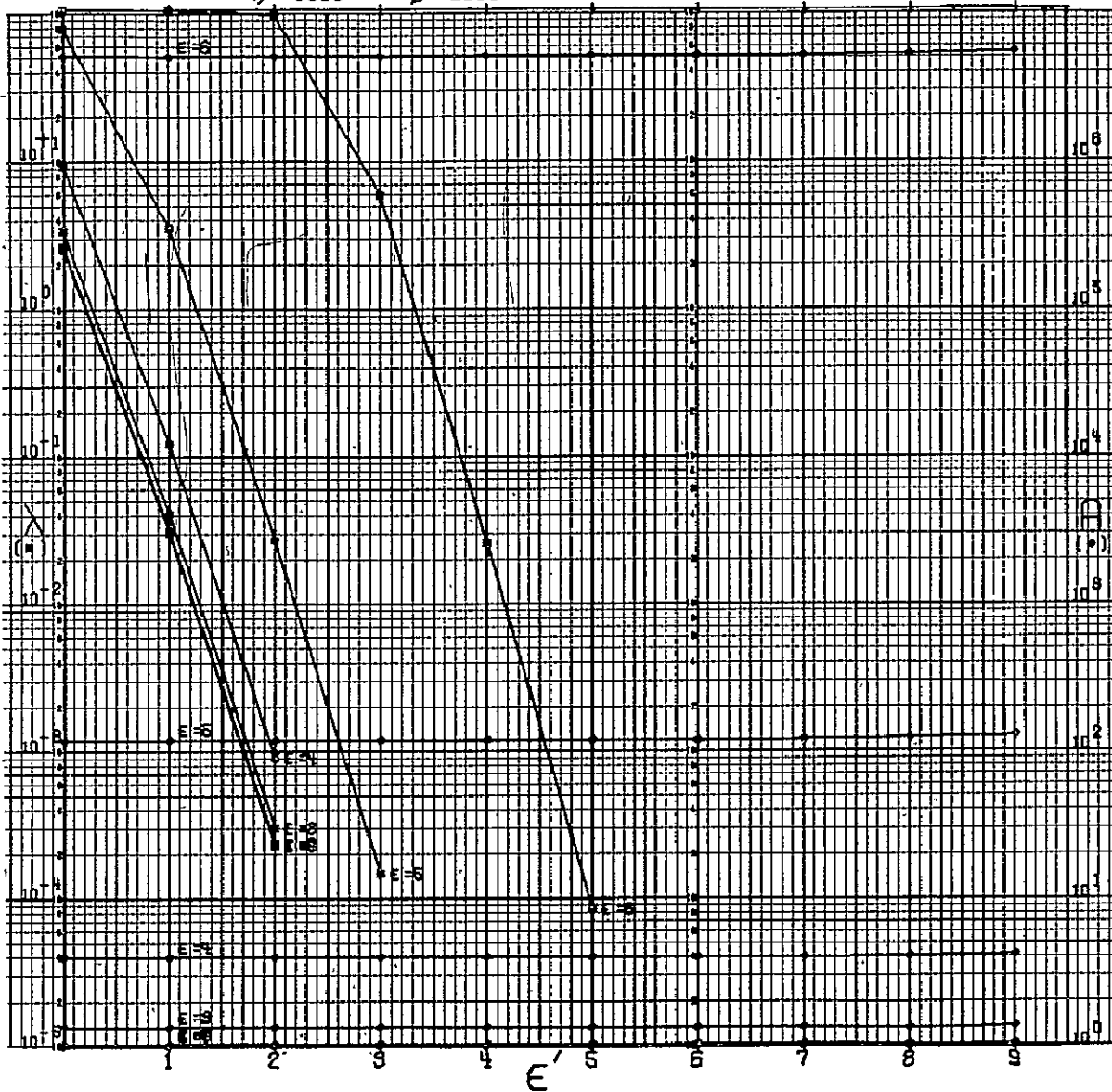
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROFB, CODE 542, GSFC)



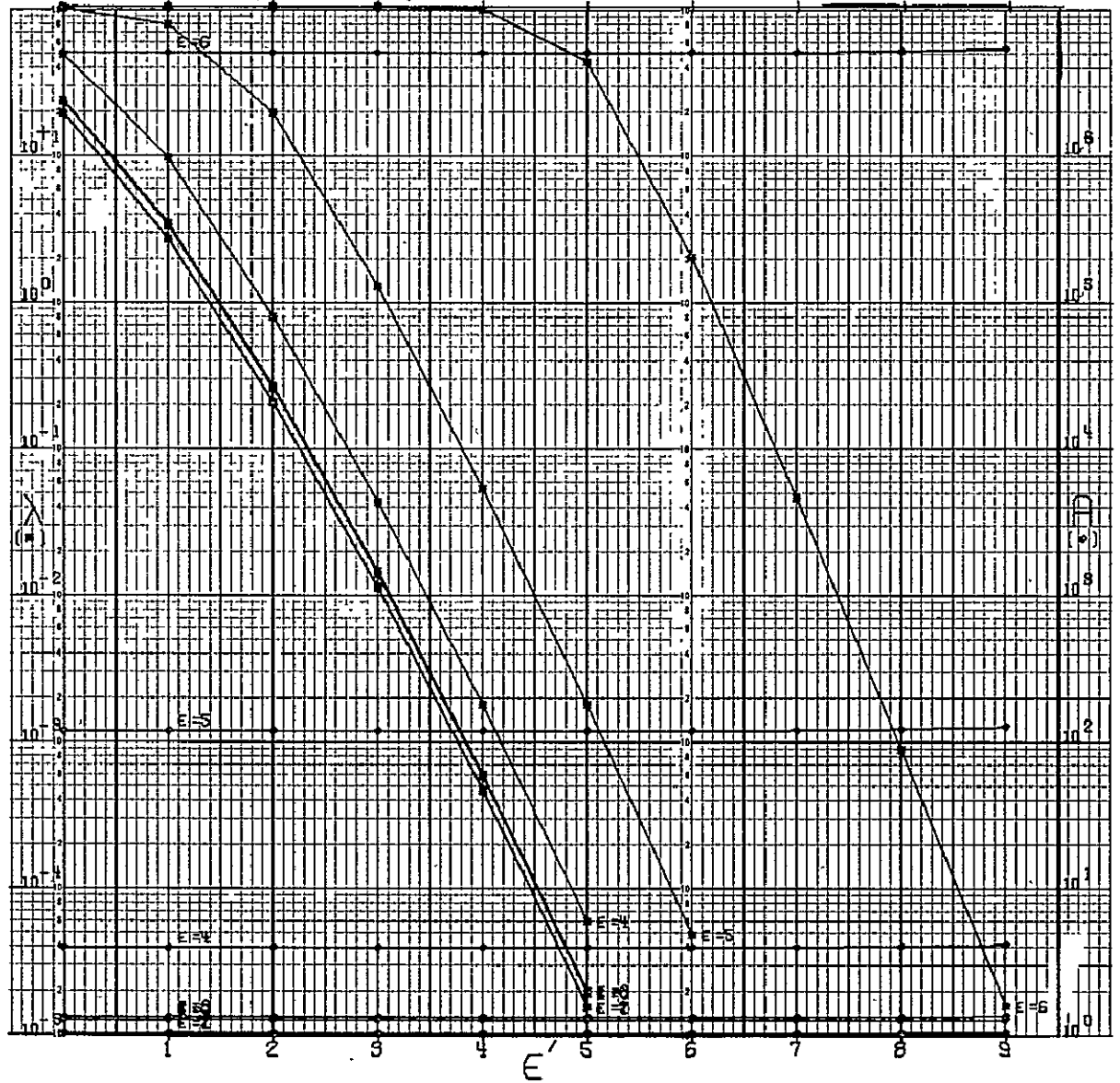
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



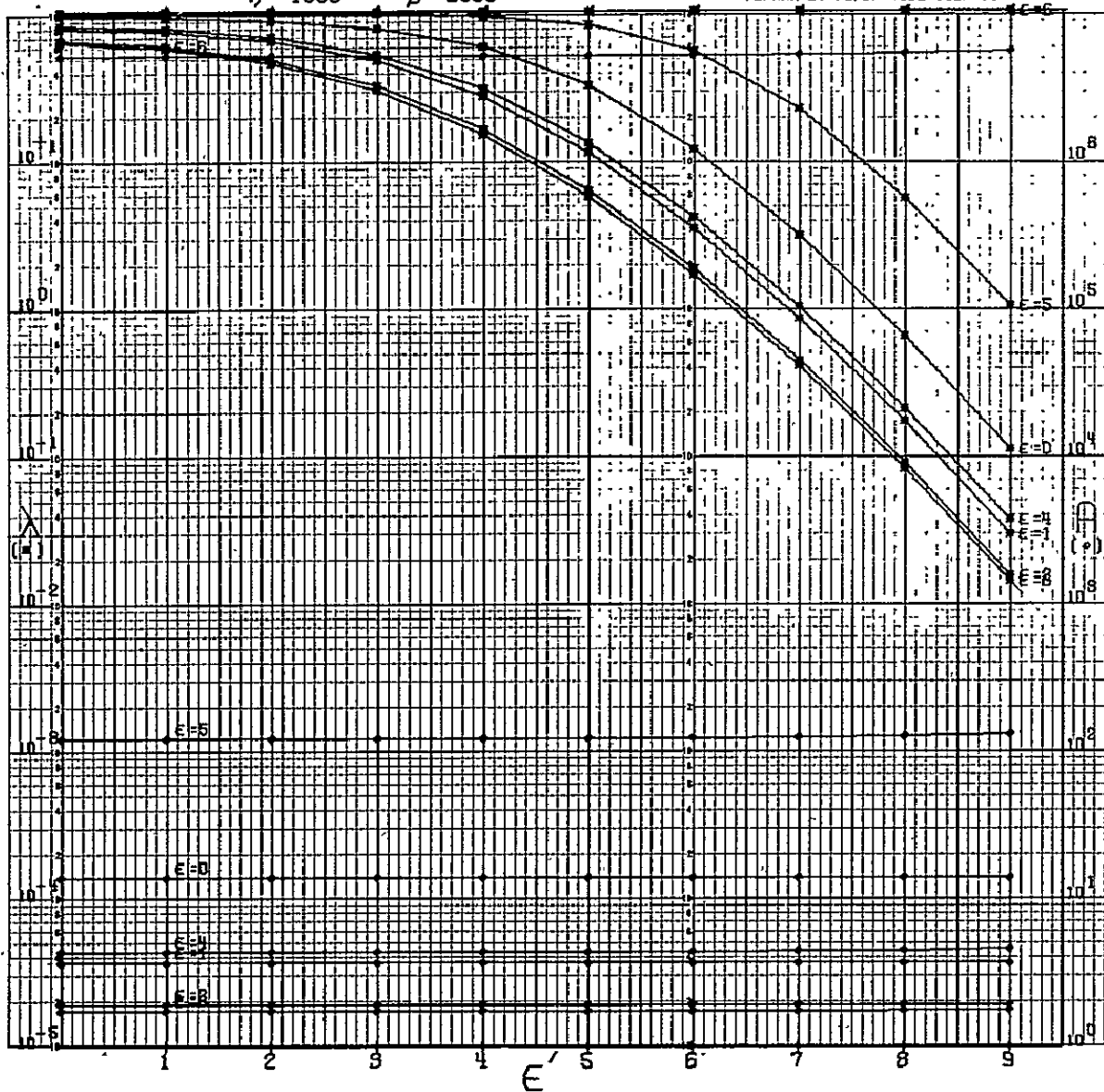
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY R0F6, CODE 542, GSFC)



A-598

N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = .0001$

$\beta = 5000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-599

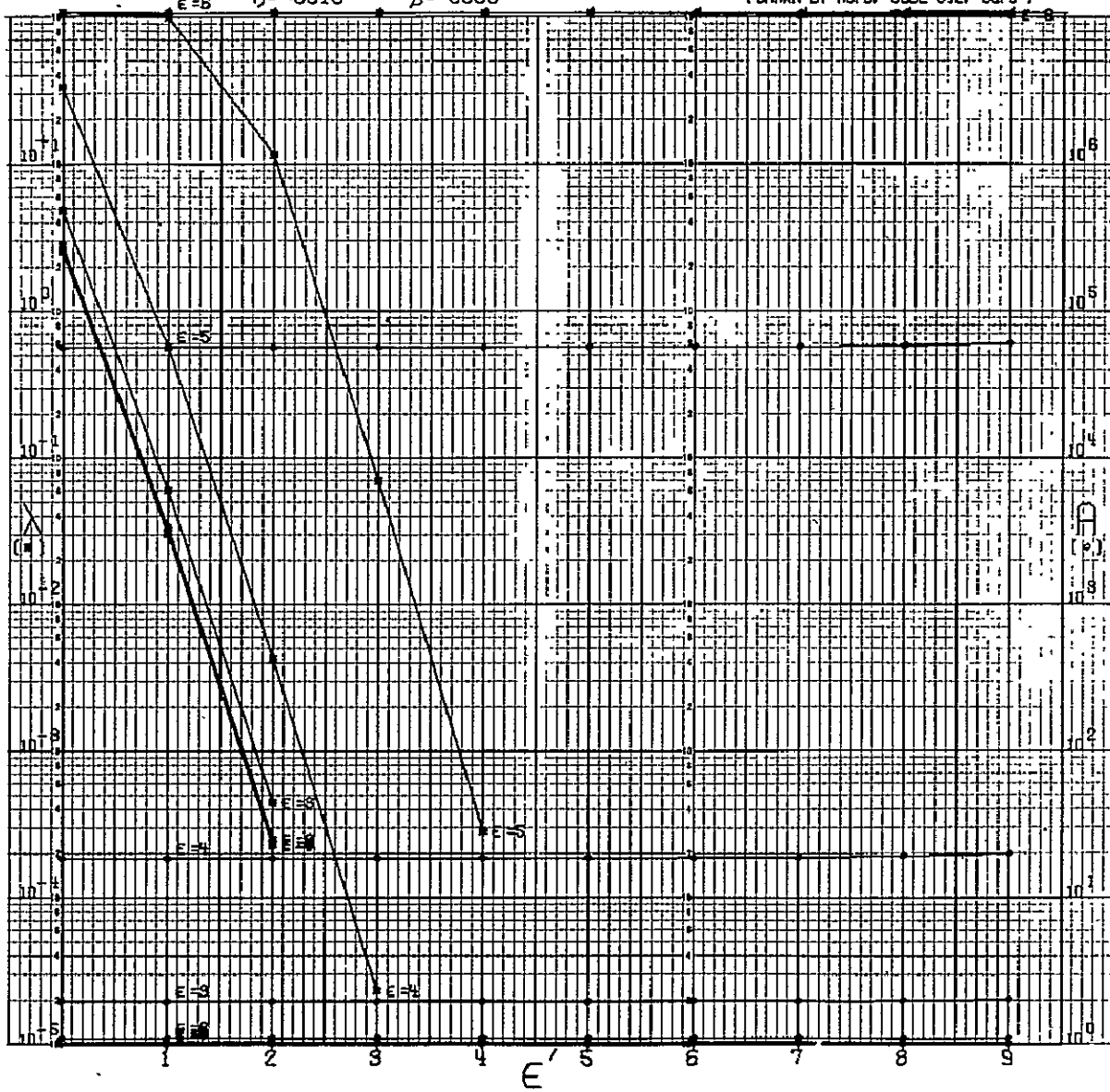
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-600

X

N = 25

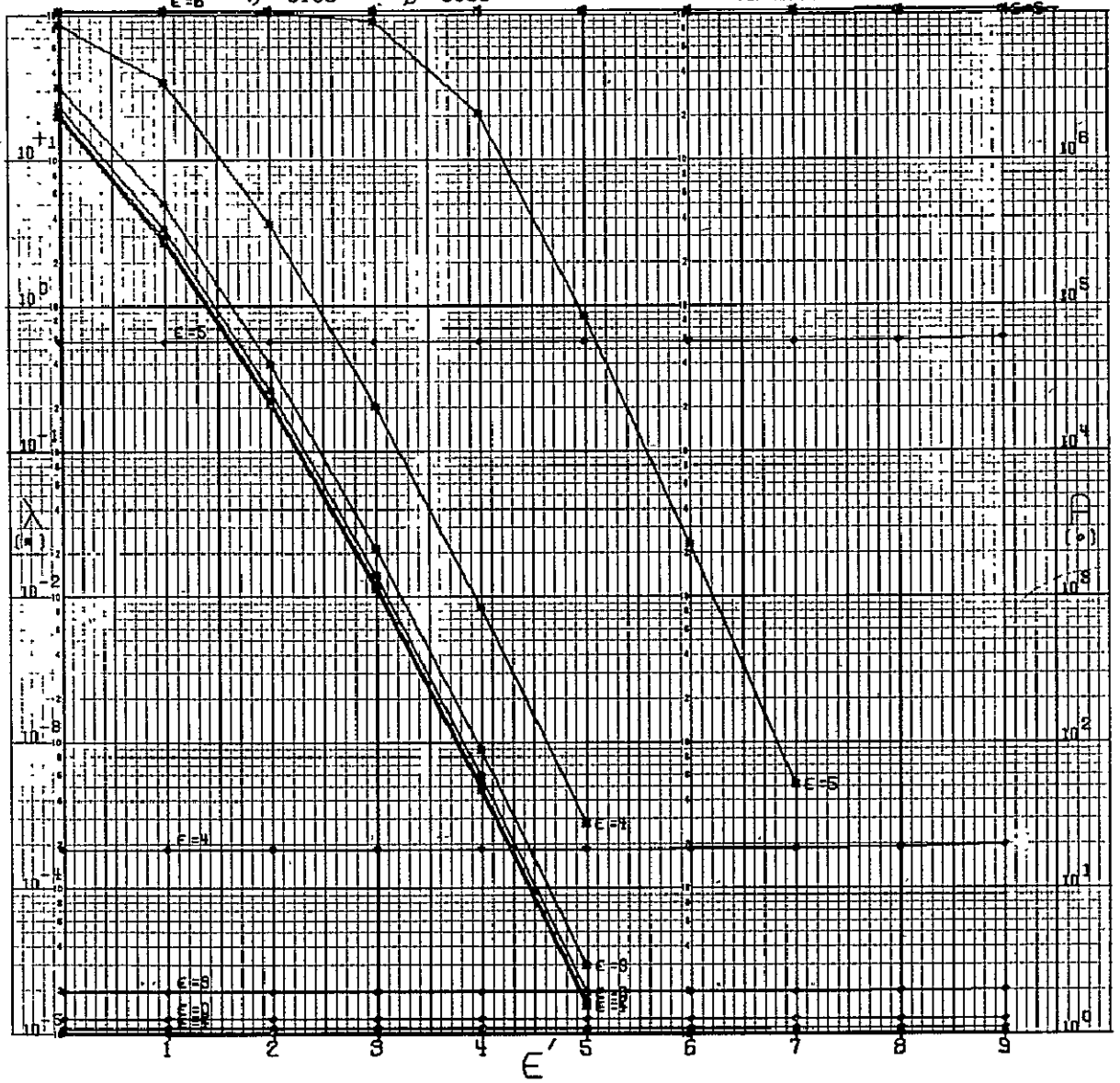
CODE 1111100101101110001000000

GSFC STANDARD

$\sigma = 0.100$

$\beta = 5000$

(DRAWN BY R0PB, CODE 542, GSFC)



A-601

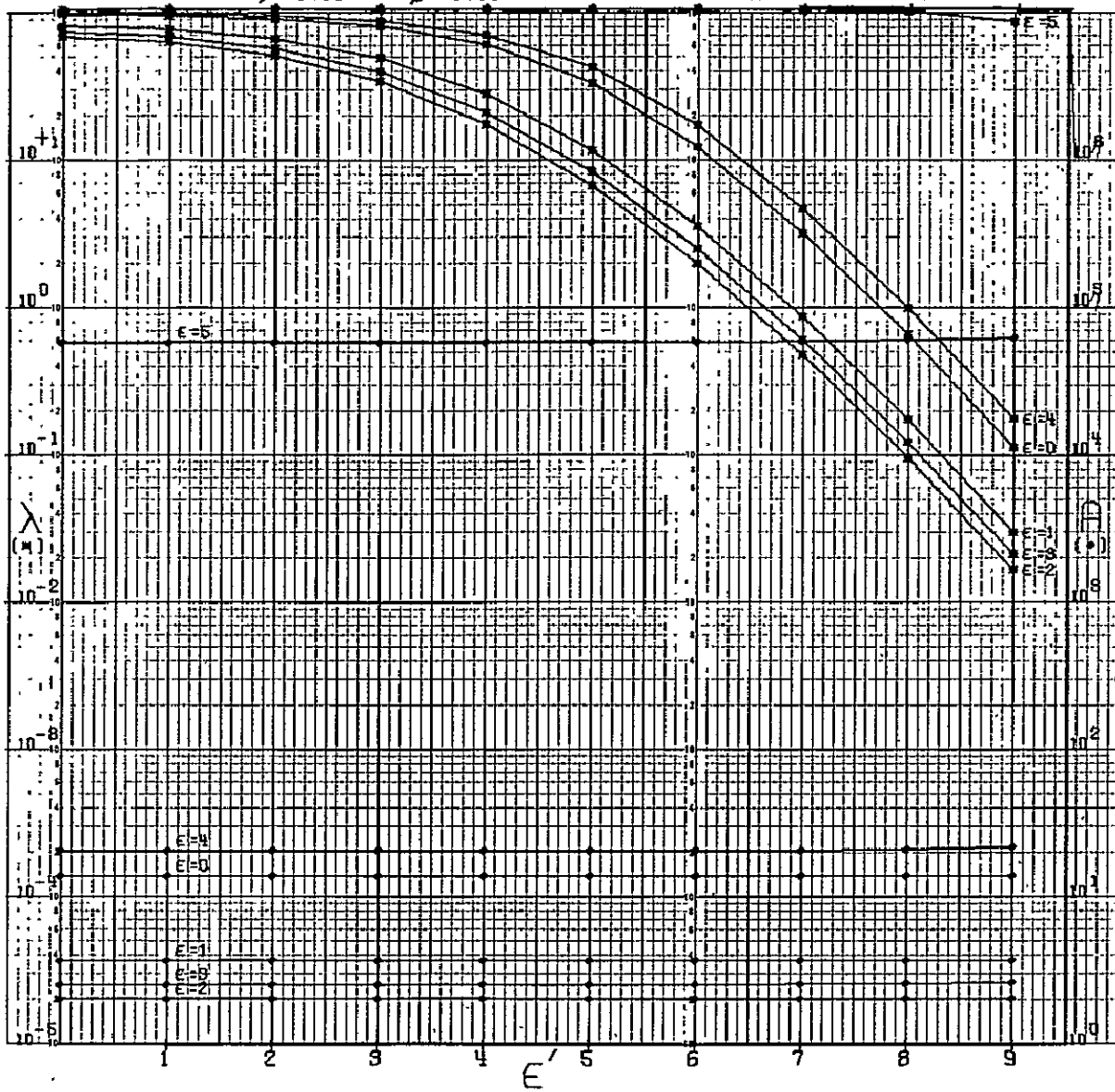
N=25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-602

N = 25

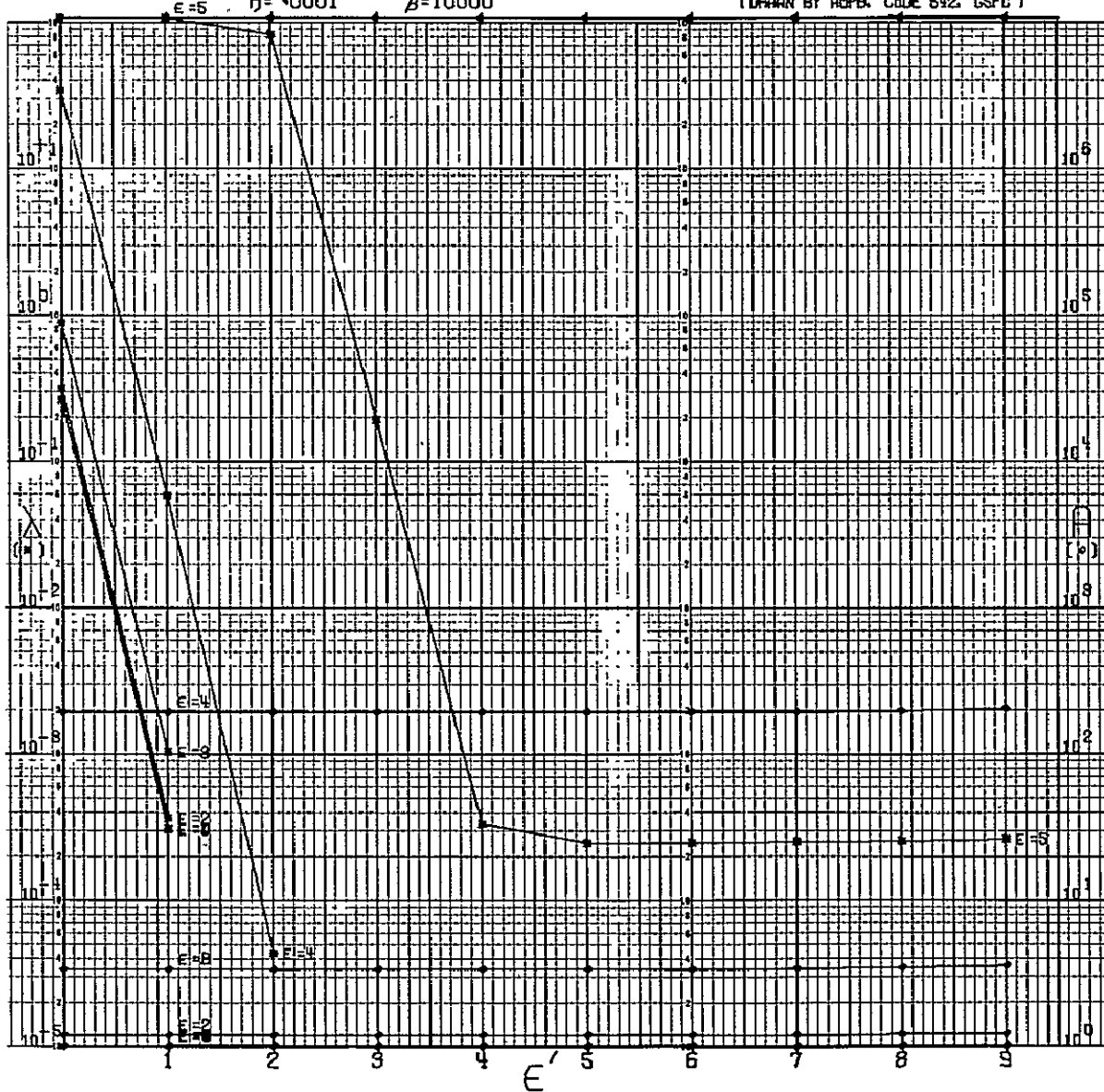
CODE 1111100101101110001000000

GSFC STANDARD

$\eta = .0001$

$\beta = 10000$

(DRAWN BY RCPB. CODE 542. GSFC)



A-603

N = 25

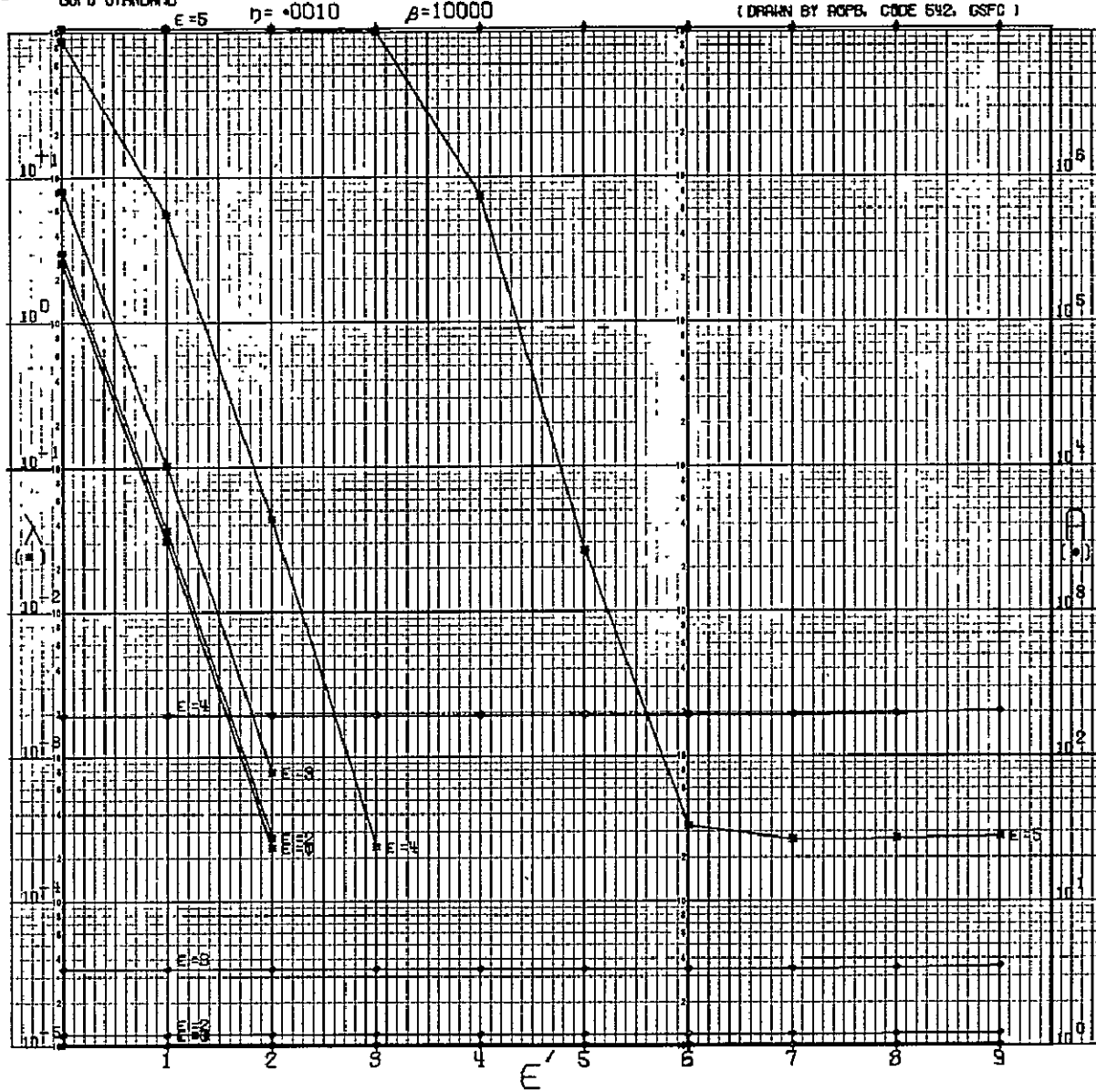
CODE 11111001010110001000000

GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPB. CODE 542. GSFC)



A-604

N=25

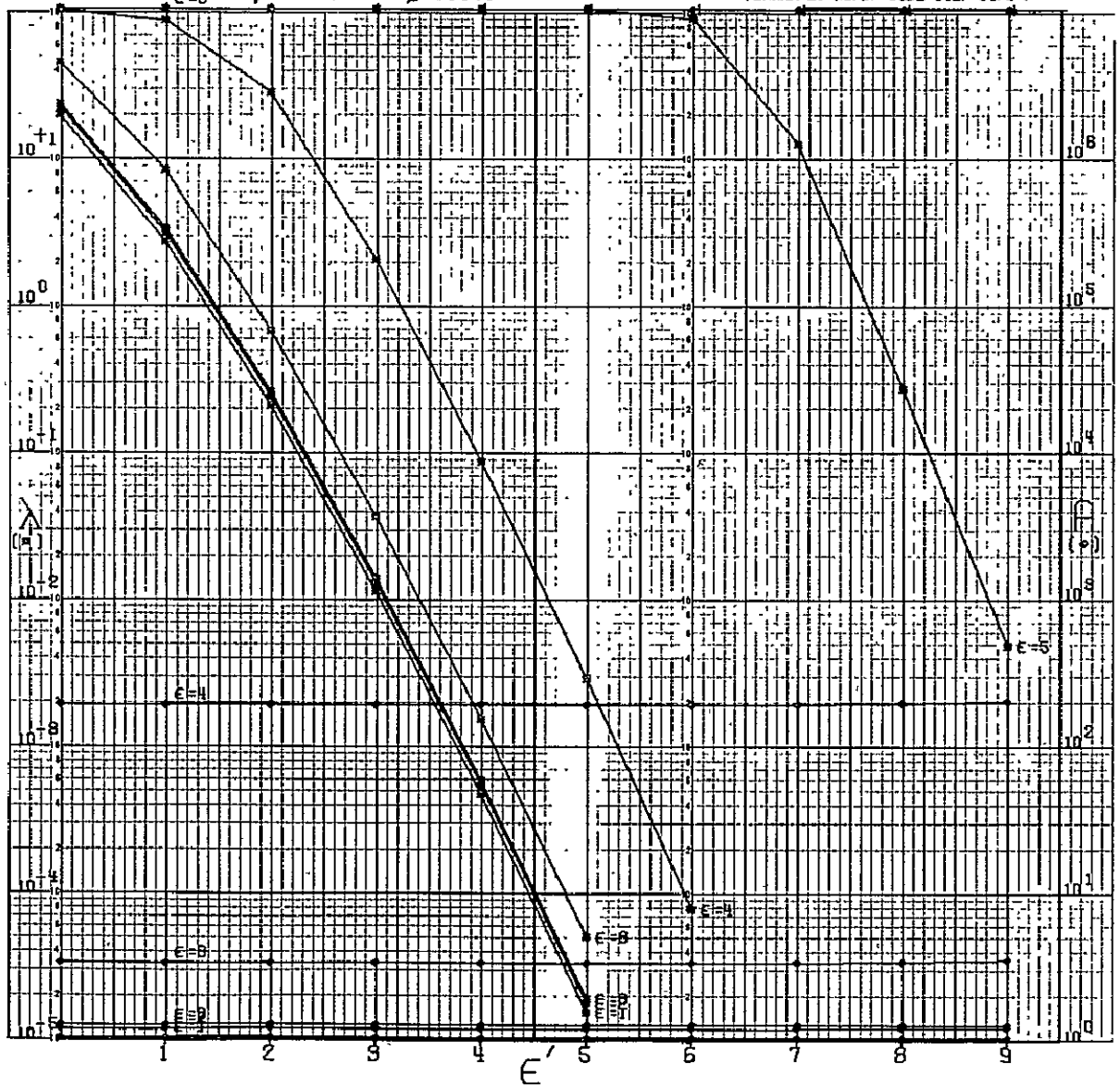
CODE 1111100101101110001000000

GSFC STANDARD

$\gamma = -0.100$

$\beta = 10000$

(DRAWN BY AOPB. CODE 542, GSFC)



A-605

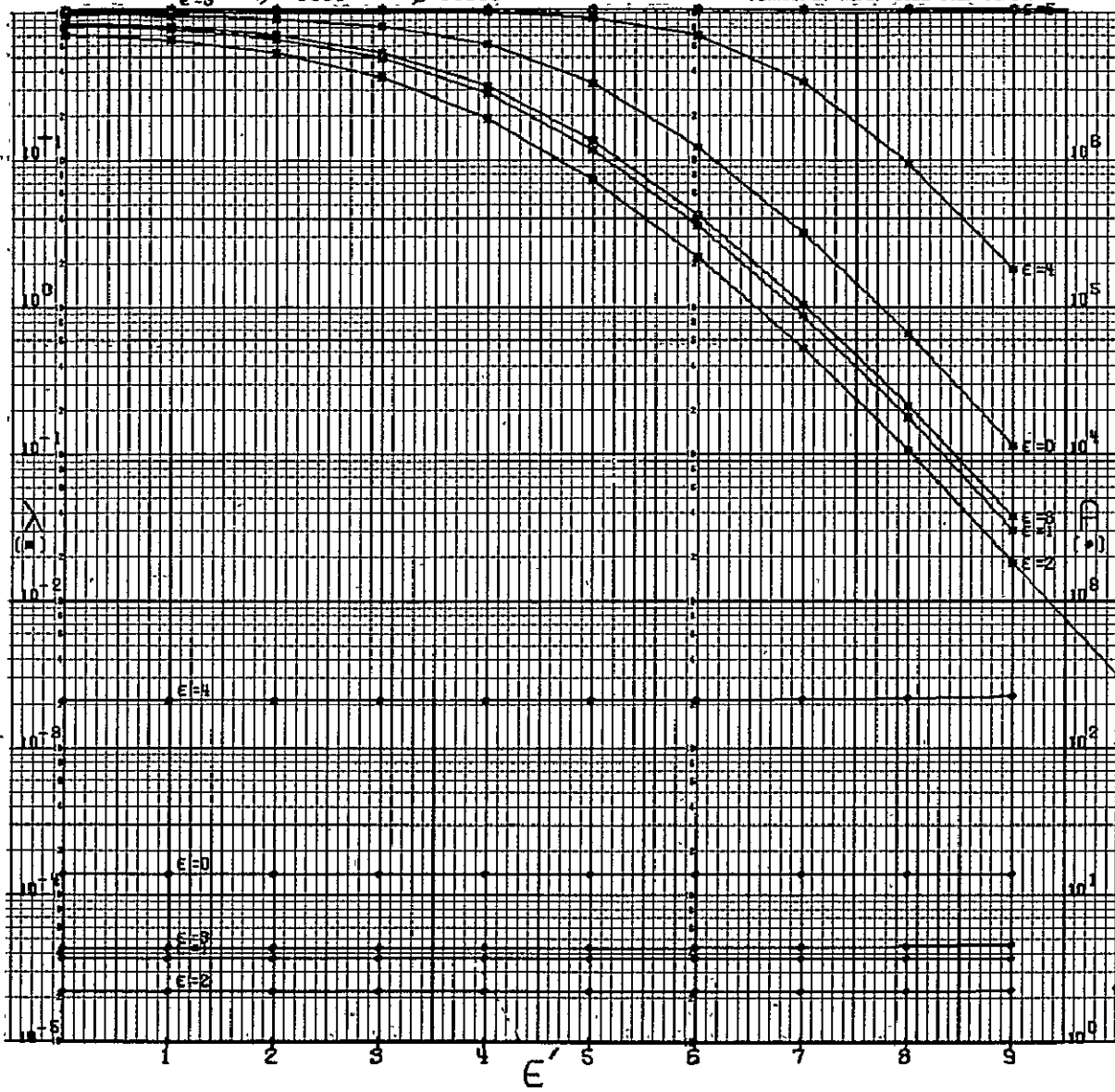
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\epsilon = 5$ $\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-606

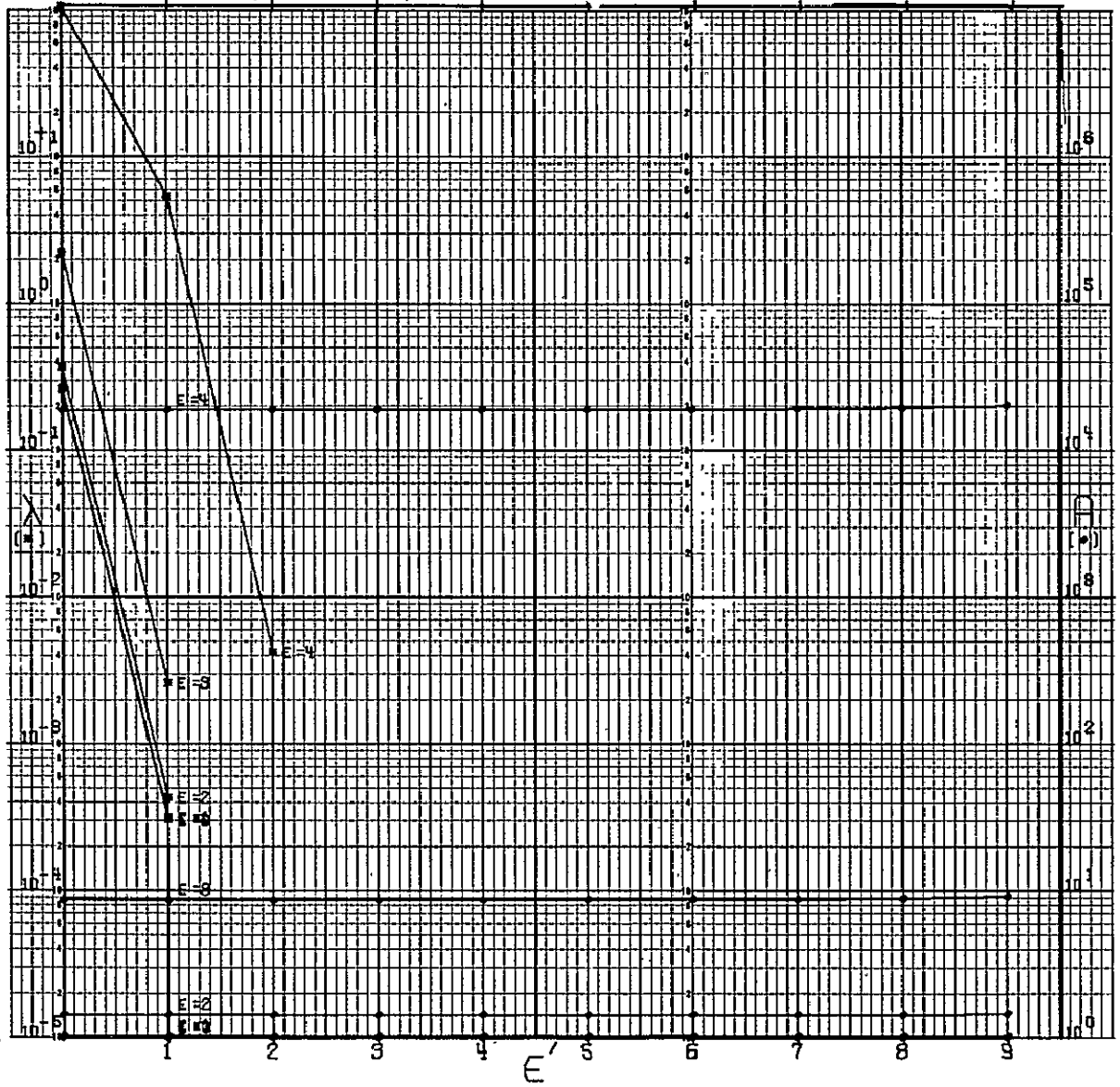
N = 25

CODE 1111100101102110001000000
GSFC STANDARD

$\eta = .0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-607

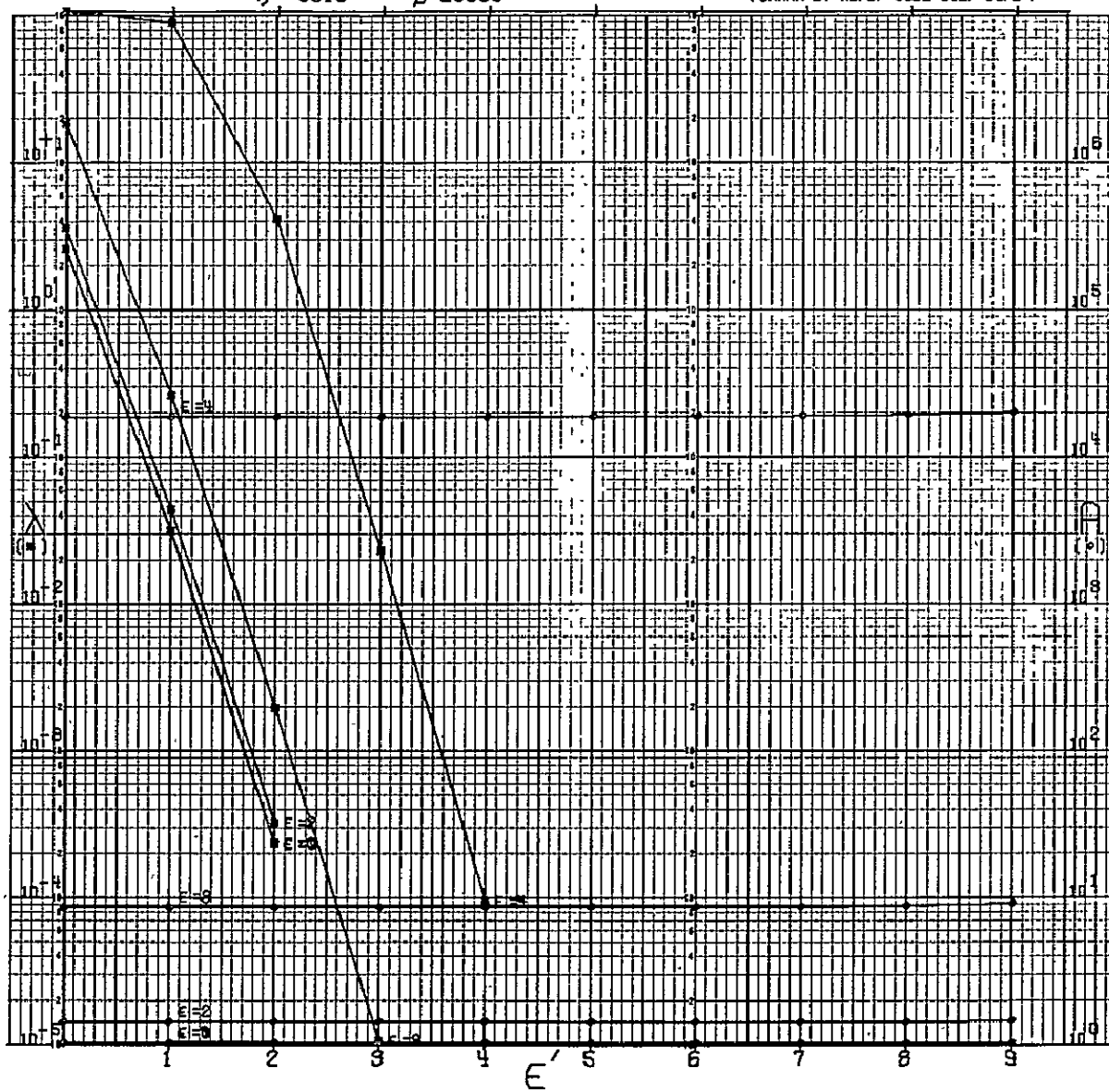
N = 25

CODE 1111100101101110001000000
GSFC STANDARD

$\eta = .0010$

$\beta = 20000$

(DRAWN BY ADPB, CODE 542, GSFC)



A-608

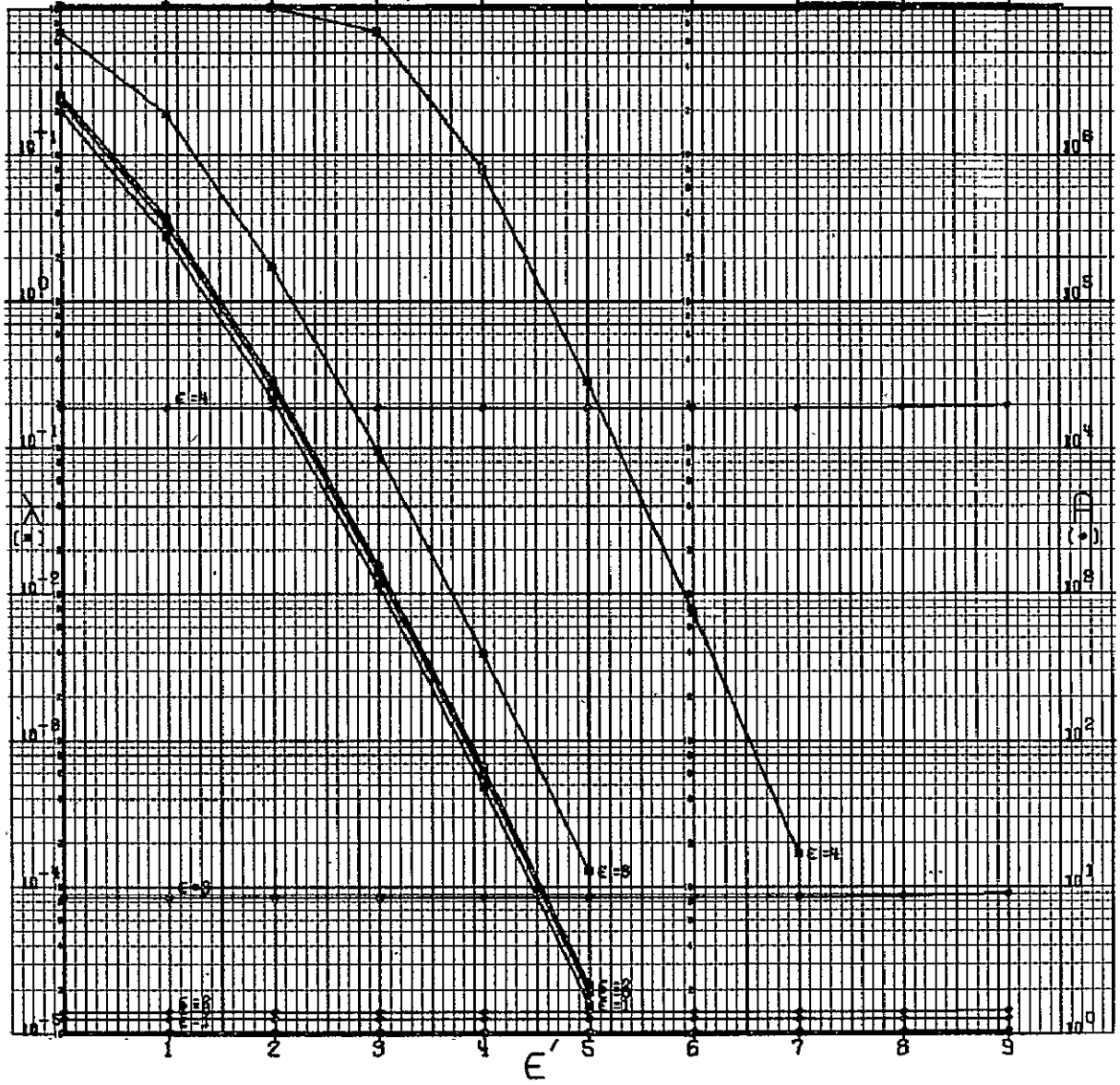
N-25

CODE 1111100101101110001000000
GSFC STANDARD

b = +0100

$\beta = 20000$

(DRAWN BY ROPE, CODE 592, GSFC)



A-609

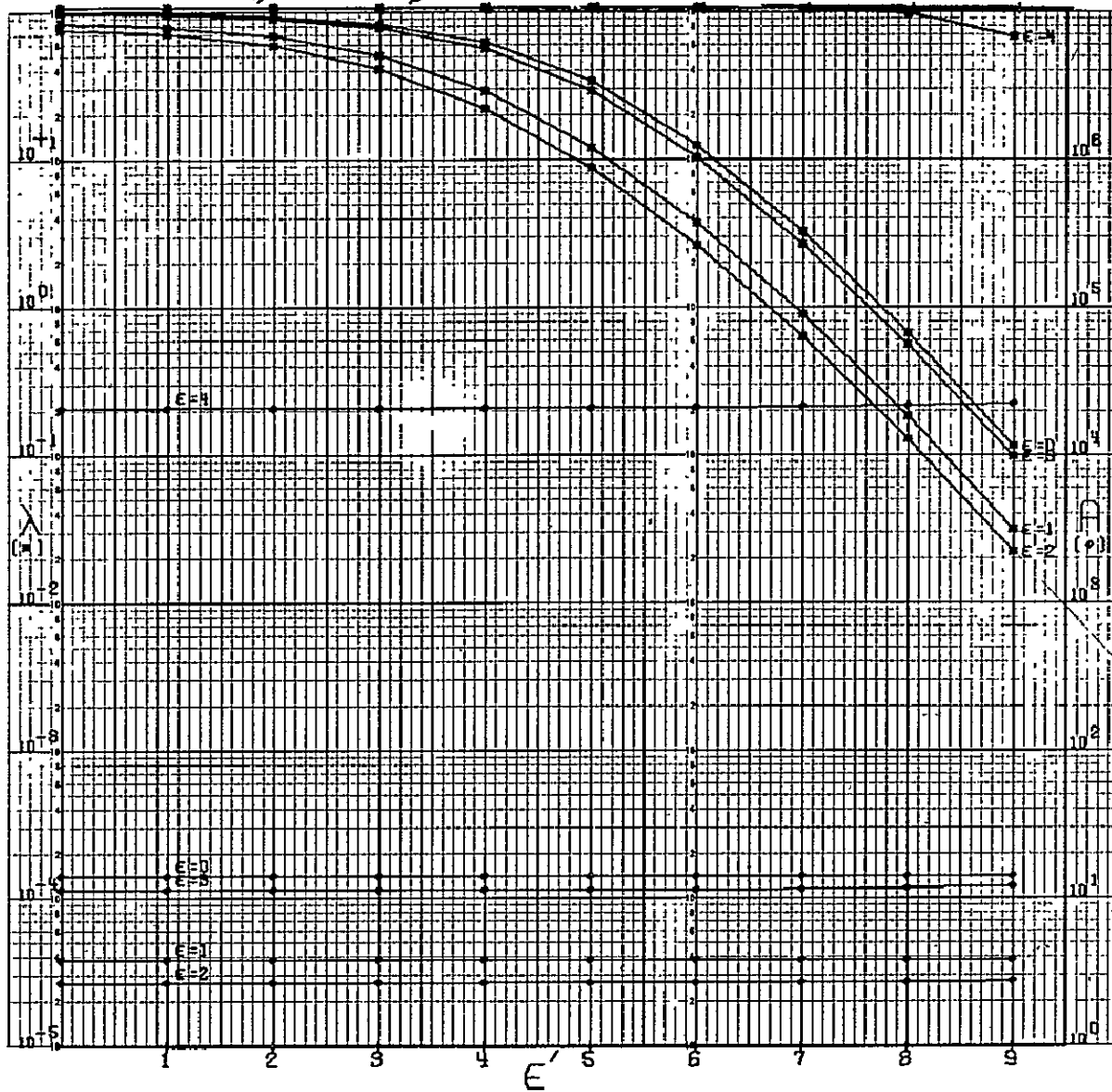
NF-25

CODE 1111100101101110001000000
GSFC STANDARD.

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROFB. CODE 542. GSFC)



A-610

N = 26

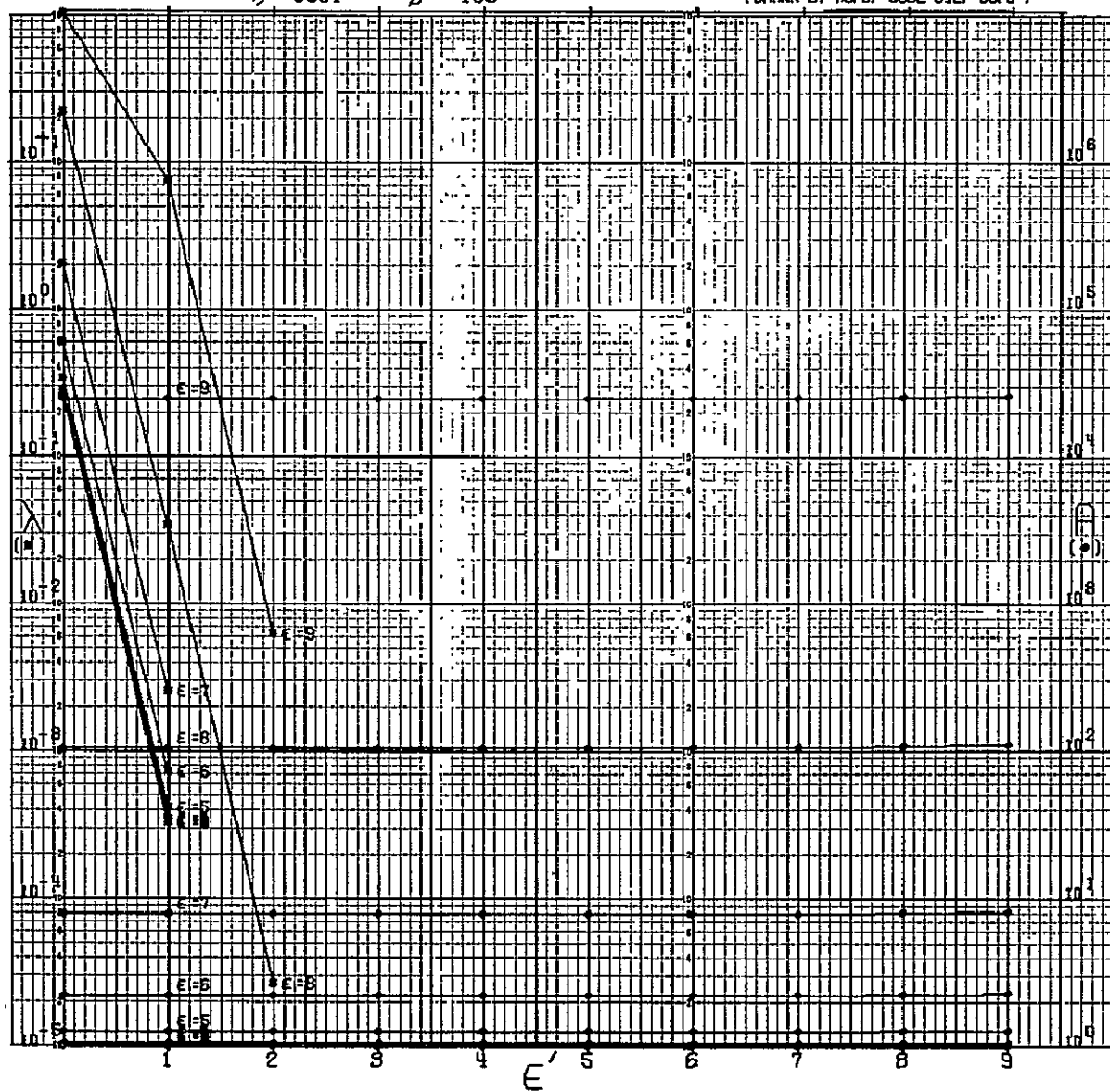
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = .0001$

$\beta = 100$

(DRAWN BY ROPB, CODE 592, GSFC)



A-611.

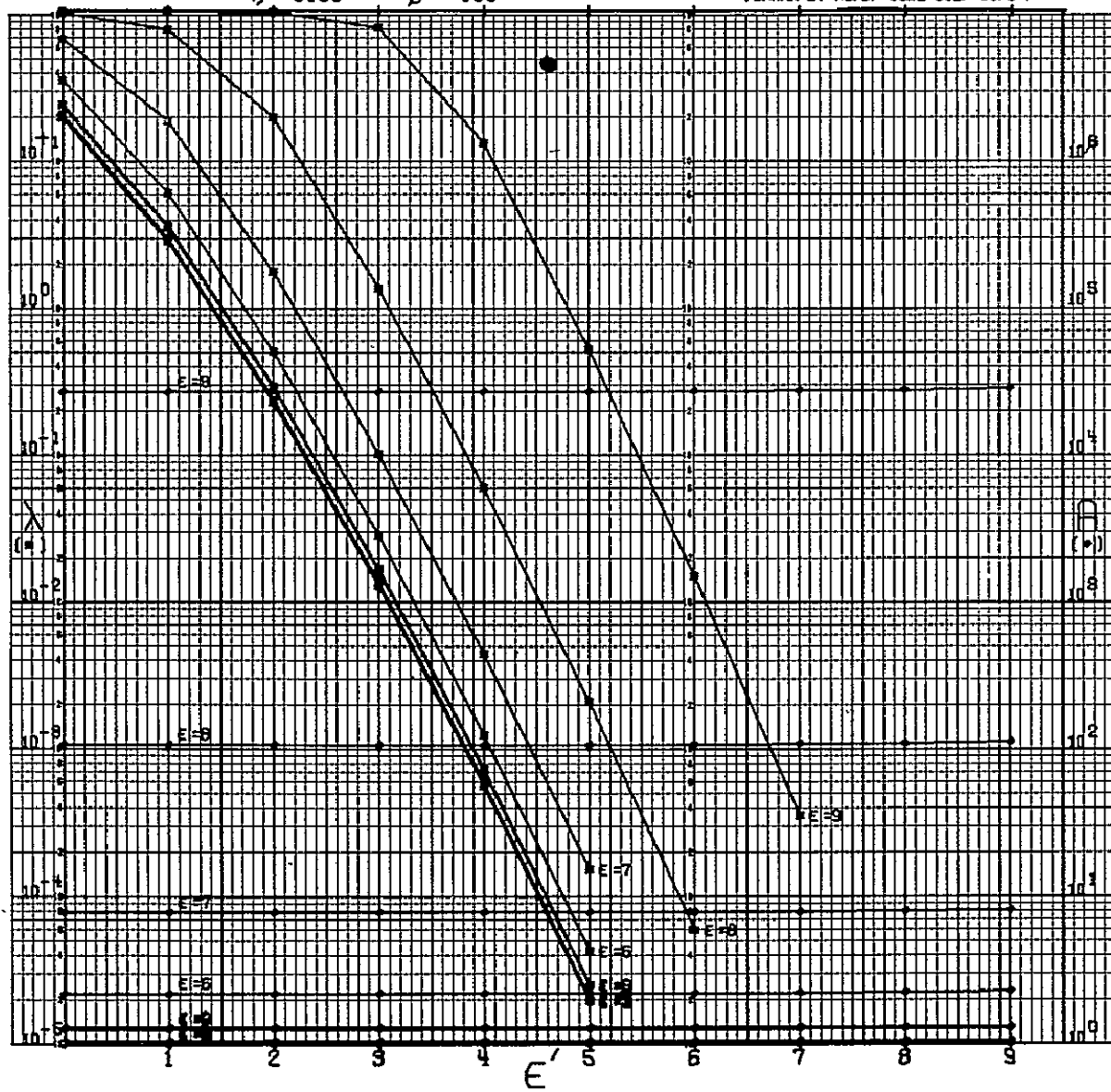
N = 26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = +0.100$

$\beta = 100$

(DRAWN BY ROPE, CODE 512, GSFC)



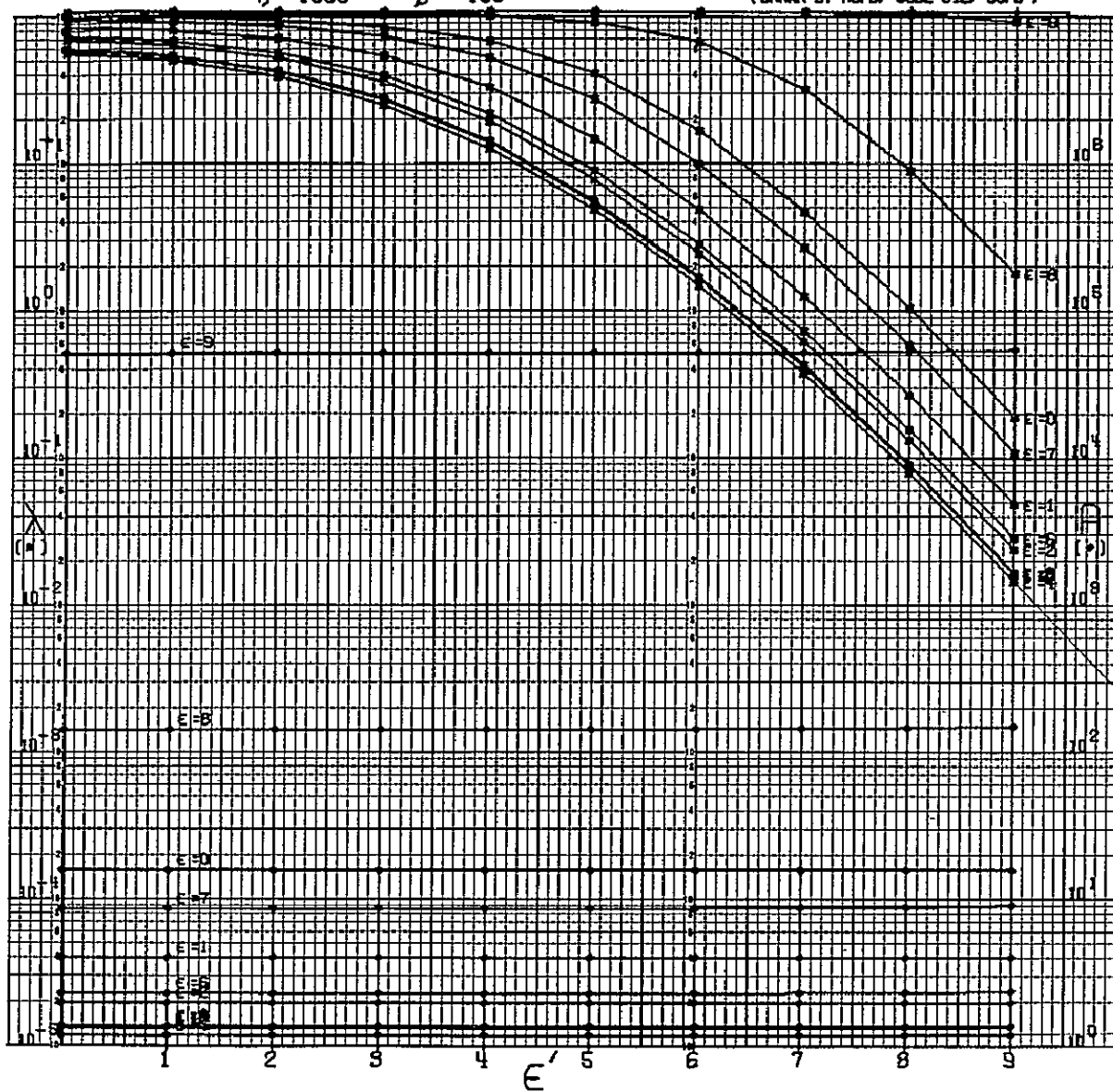
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ROPB, CODE 592, GSFC)



N = 26

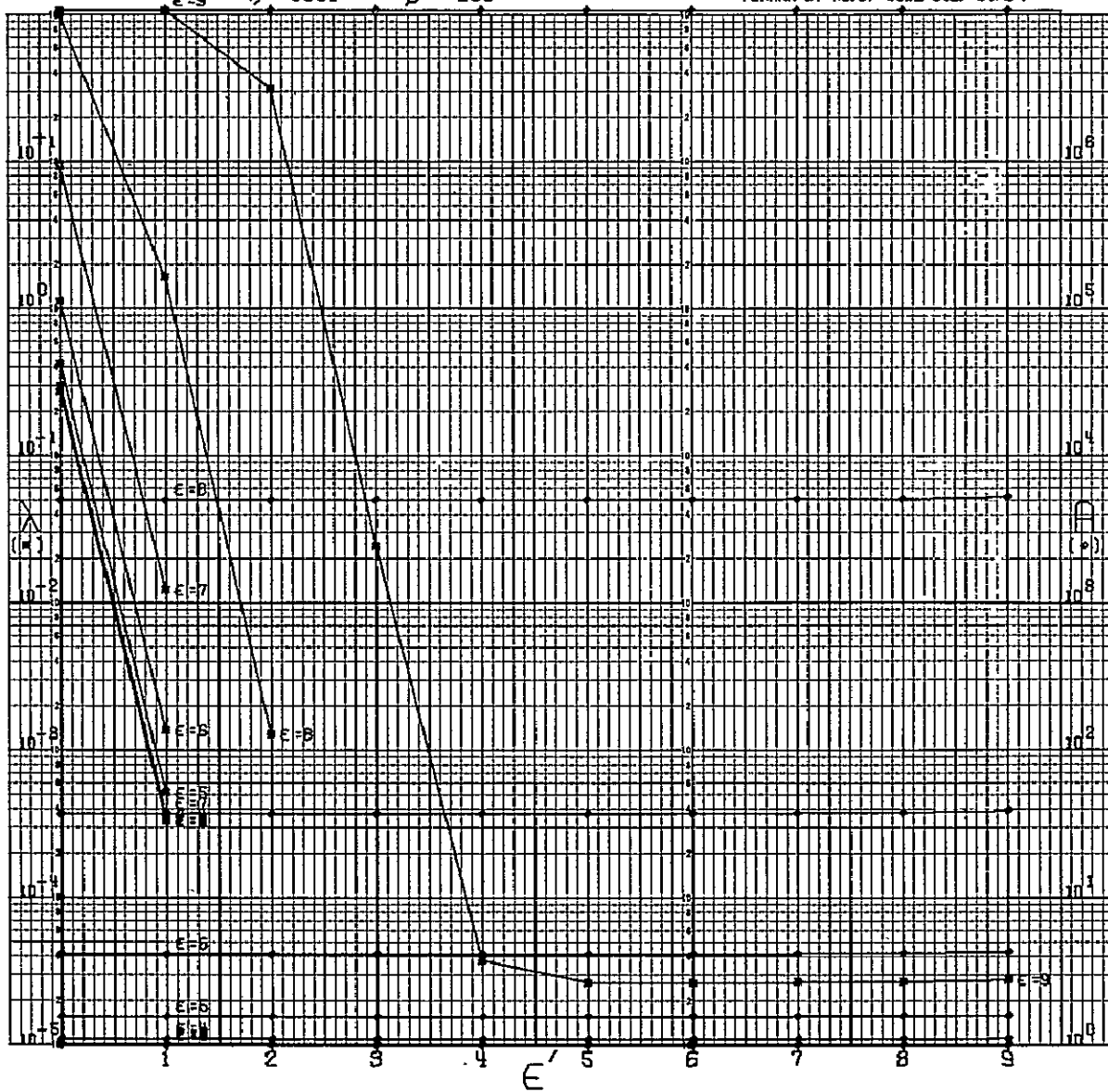
CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 9$

$\eta = 0.0001$

$\beta = 200$

(DRAWN BY RSPB, CODE 542, GSFC)



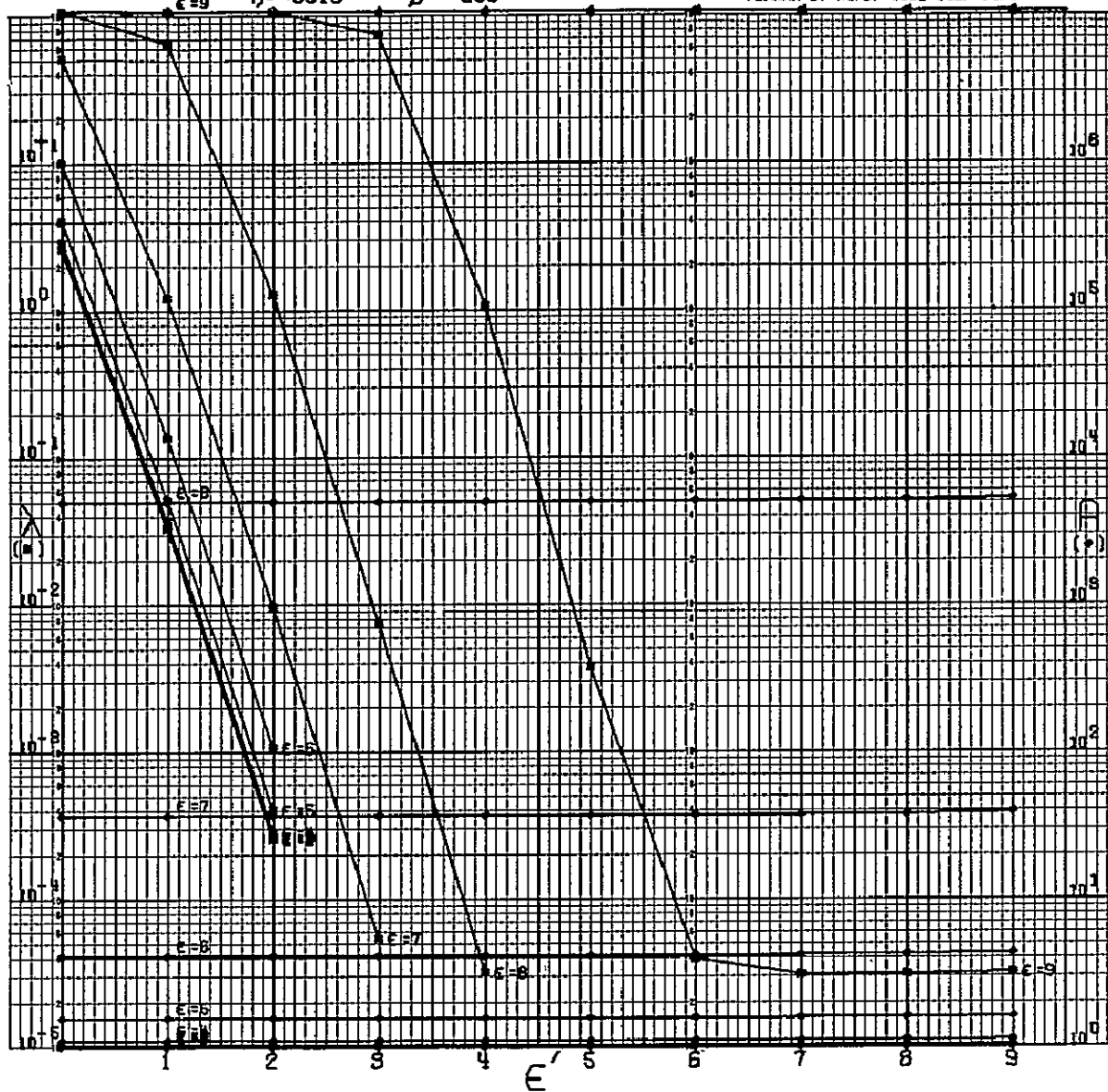
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 9$ $\eta = +0010$

$\beta = 200$

(DRAWN BY ROPE, CODE 592, GSFC)



N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 9$

$\eta = 0.0100$

$\beta = 200$

(DRAWN BY ROPEL CODE 592, GSFC)



N=26

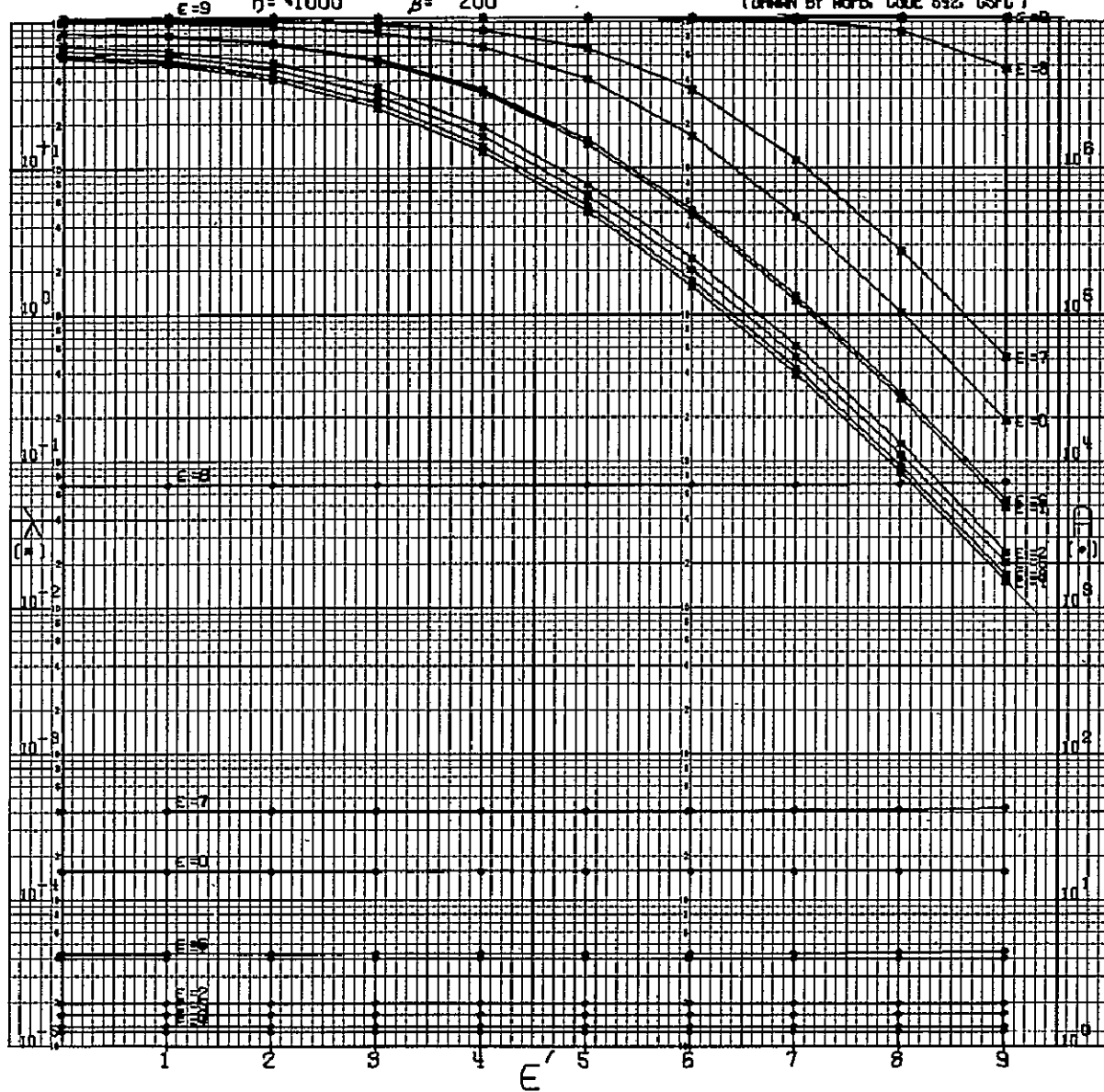
CODE 1111101001101010001000000

GSFC STANDARD

$\epsilon = 9$ $\eta = 1000$

$\beta = 200$

(DRAWN BY AOPB CODE 592 GSFC)



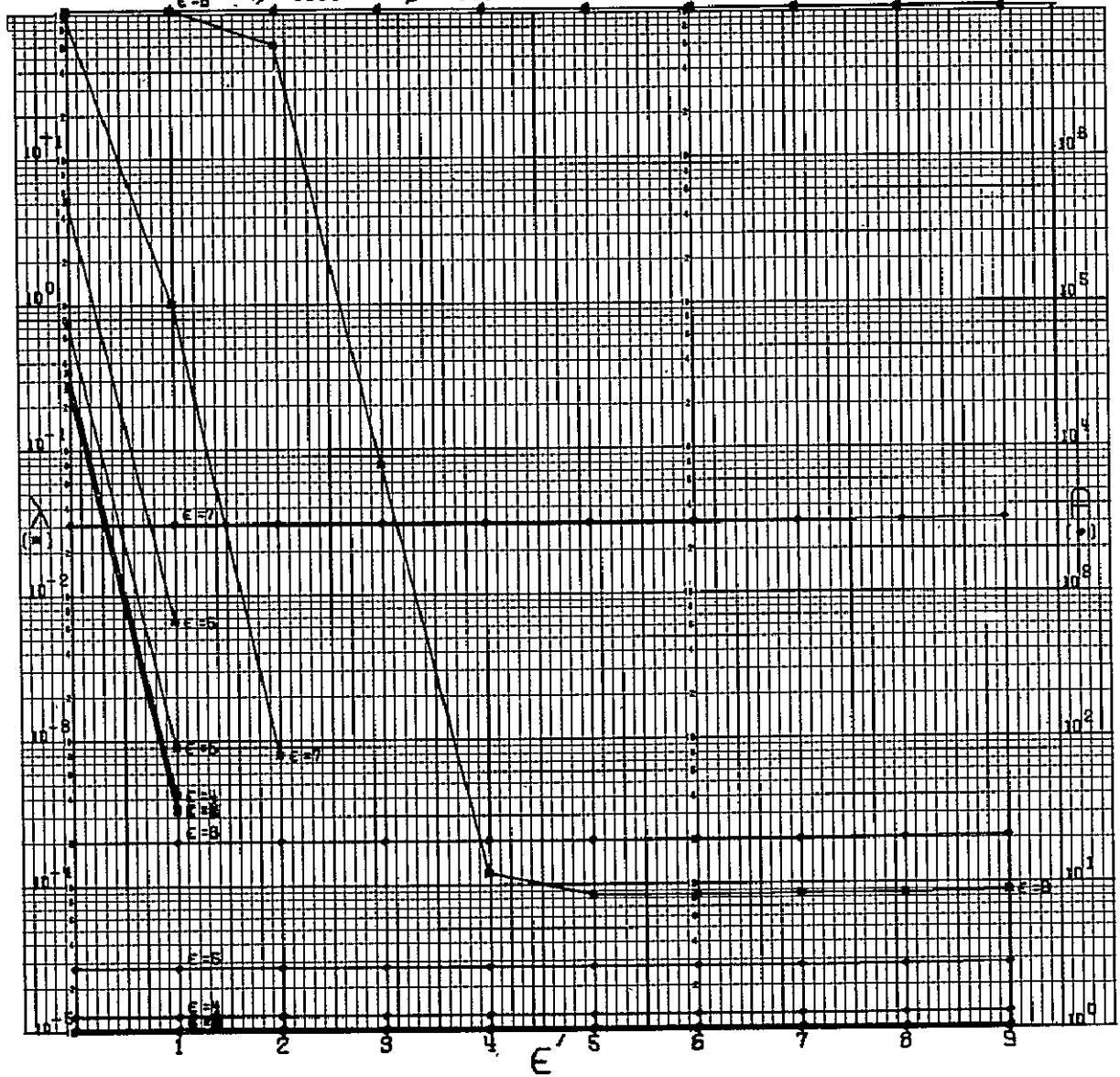
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 8$ $\eta = -0001$

$\beta = 500$

(DRAWN BY NOPS. CODE 542. GSFC)



N=26

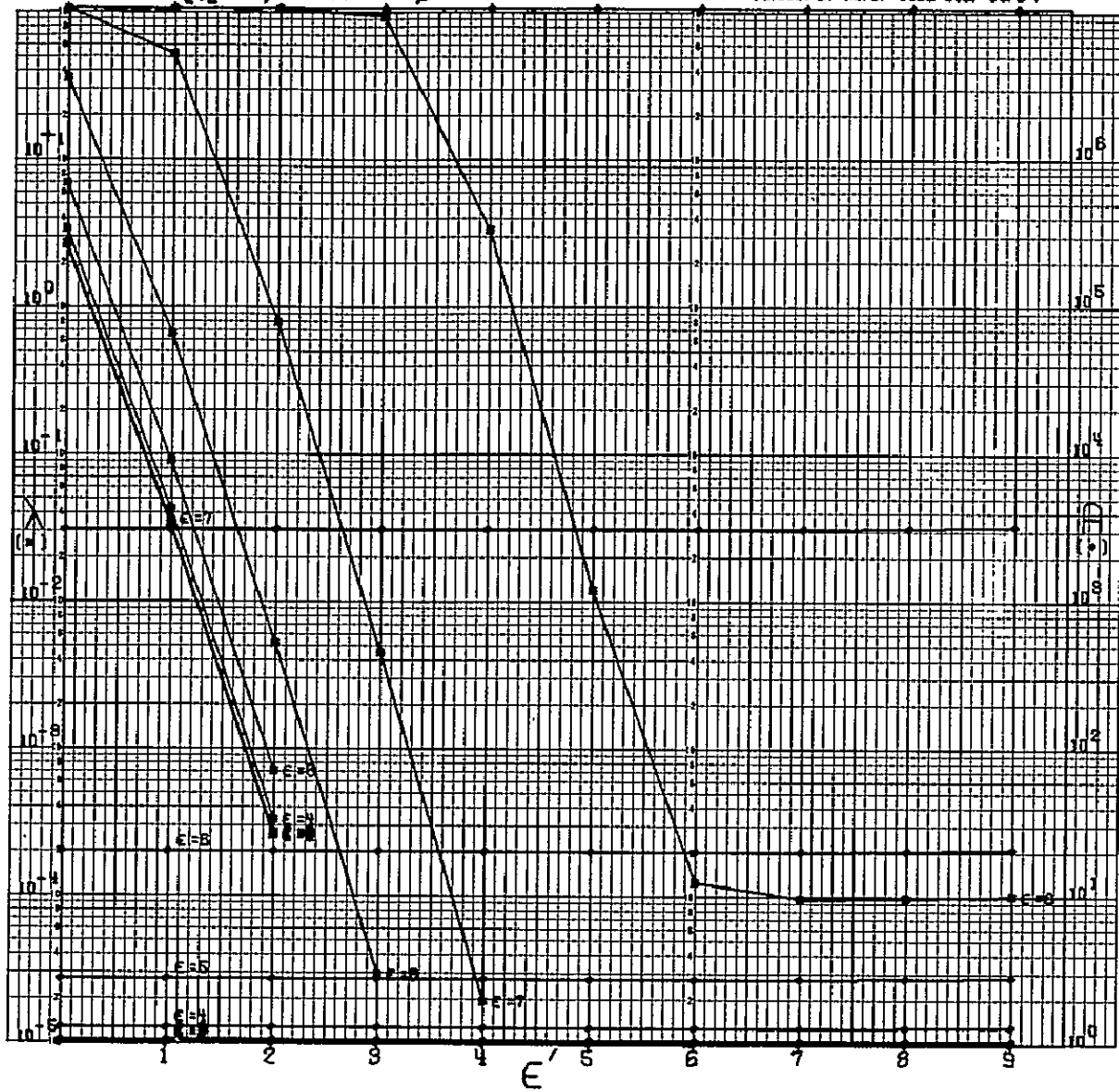
CODE 11111010011010110001000000

GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



A-620

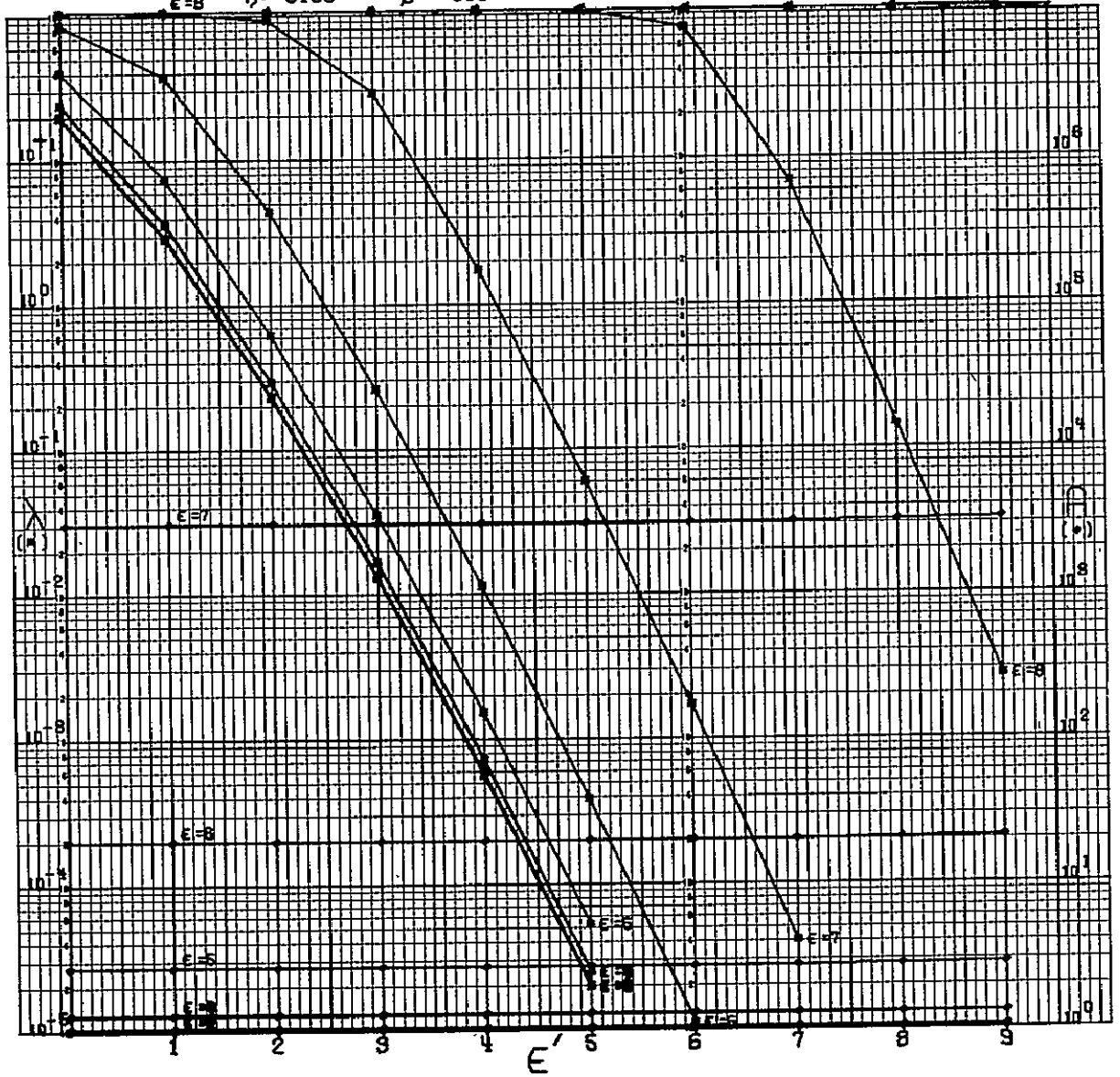
N° 26

CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 8$ $\eta = -0100$

$\beta = 500$

(DRAWN BY ROPEL CODE 512, GSFC 1)



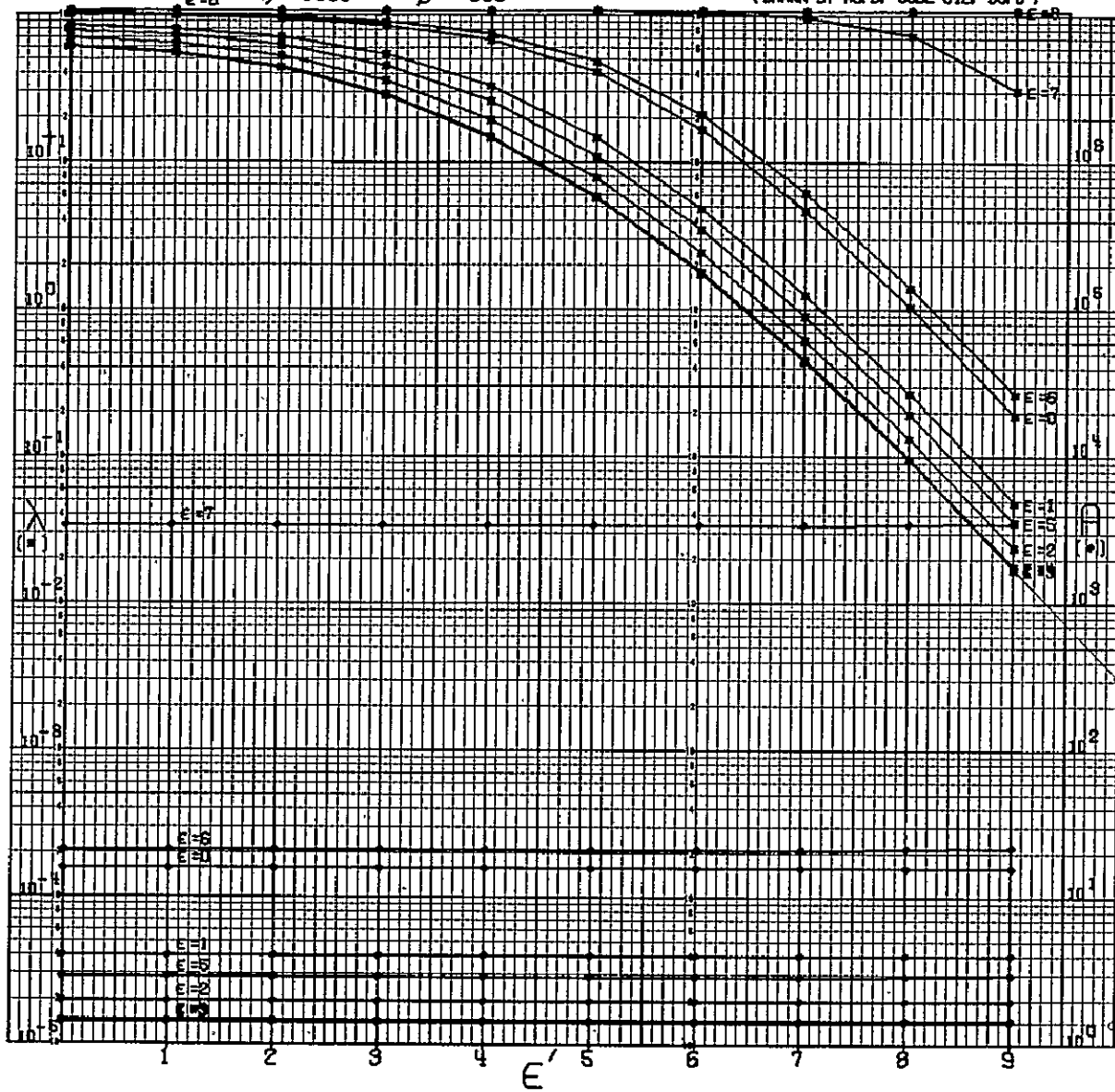
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = +1000$

$\beta = 500$

(DRAWN BY ROPS, CODE 542, GSFC)



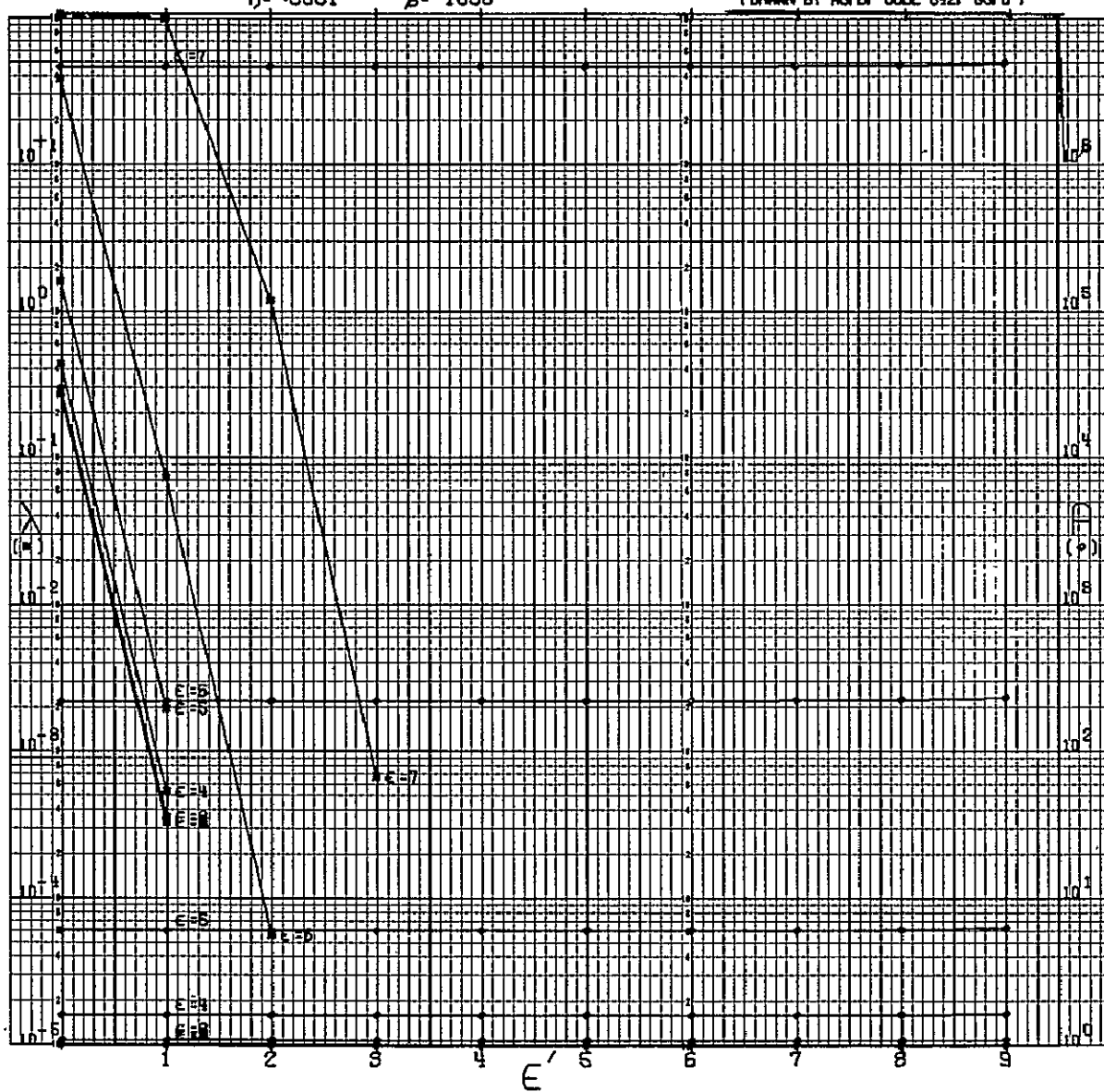
N=26

CODE 1111010011010110001000000
GSFC STANDARD

$\eta = .0001$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-623

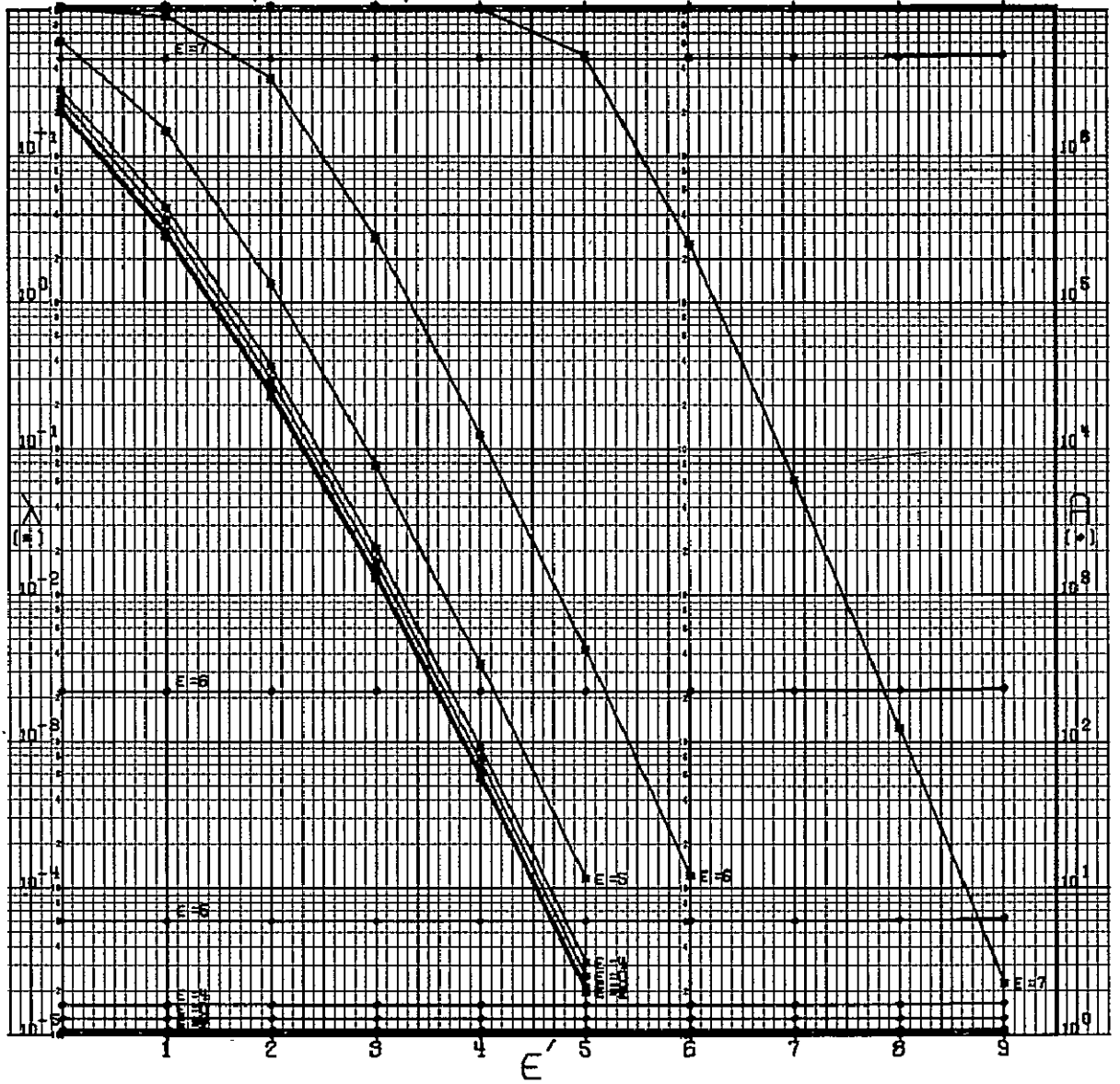
N=26

CODE 1111101001010110001000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPG. CODE 512. GSFC)



A-625

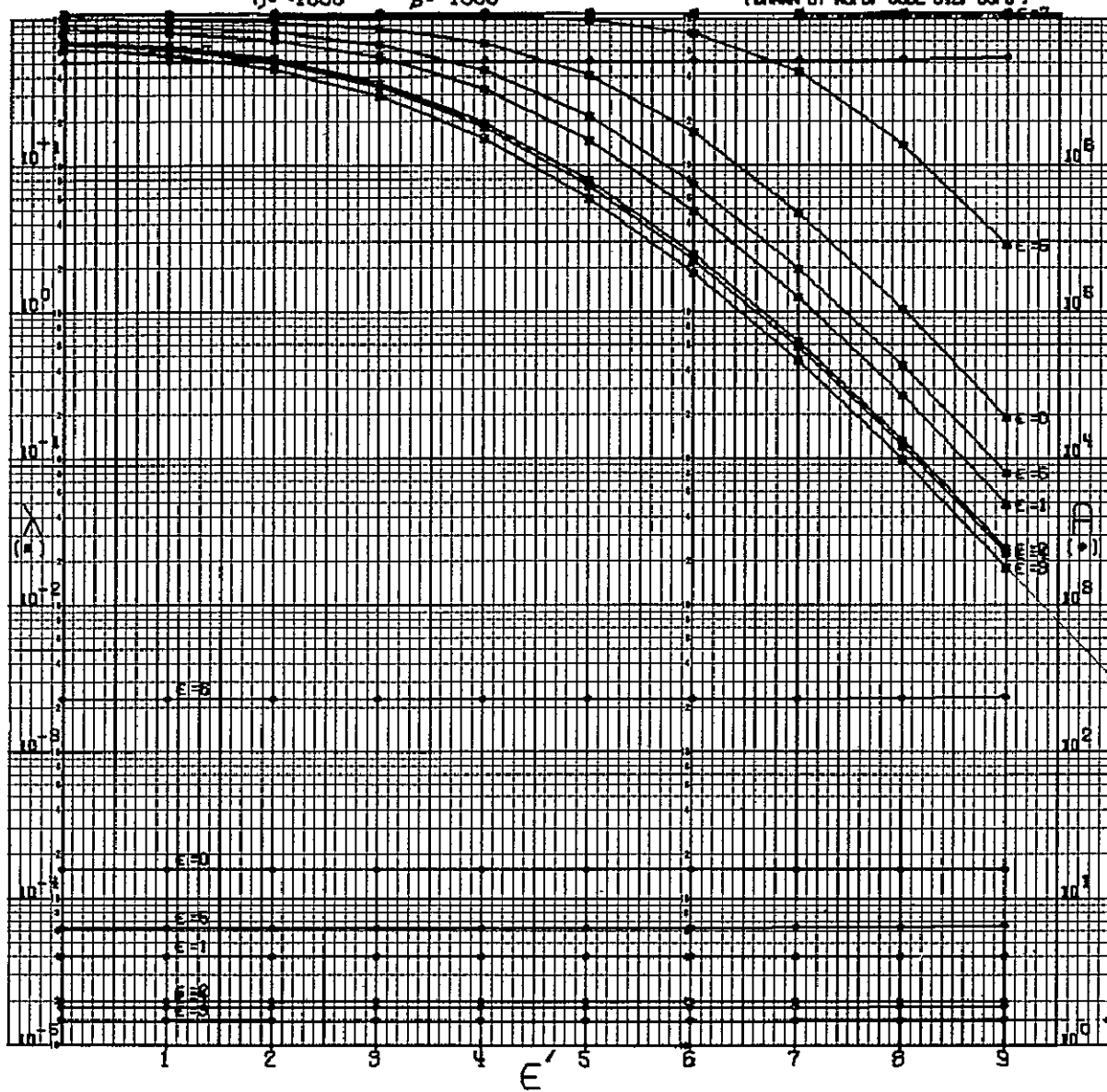
N°26

CSOE 11111010011010110001000000
GSFC STANDARD

$\eta = 1000$

$\beta = 1000$

(DRAWN BY ROPB, CODE 512, GSFC)



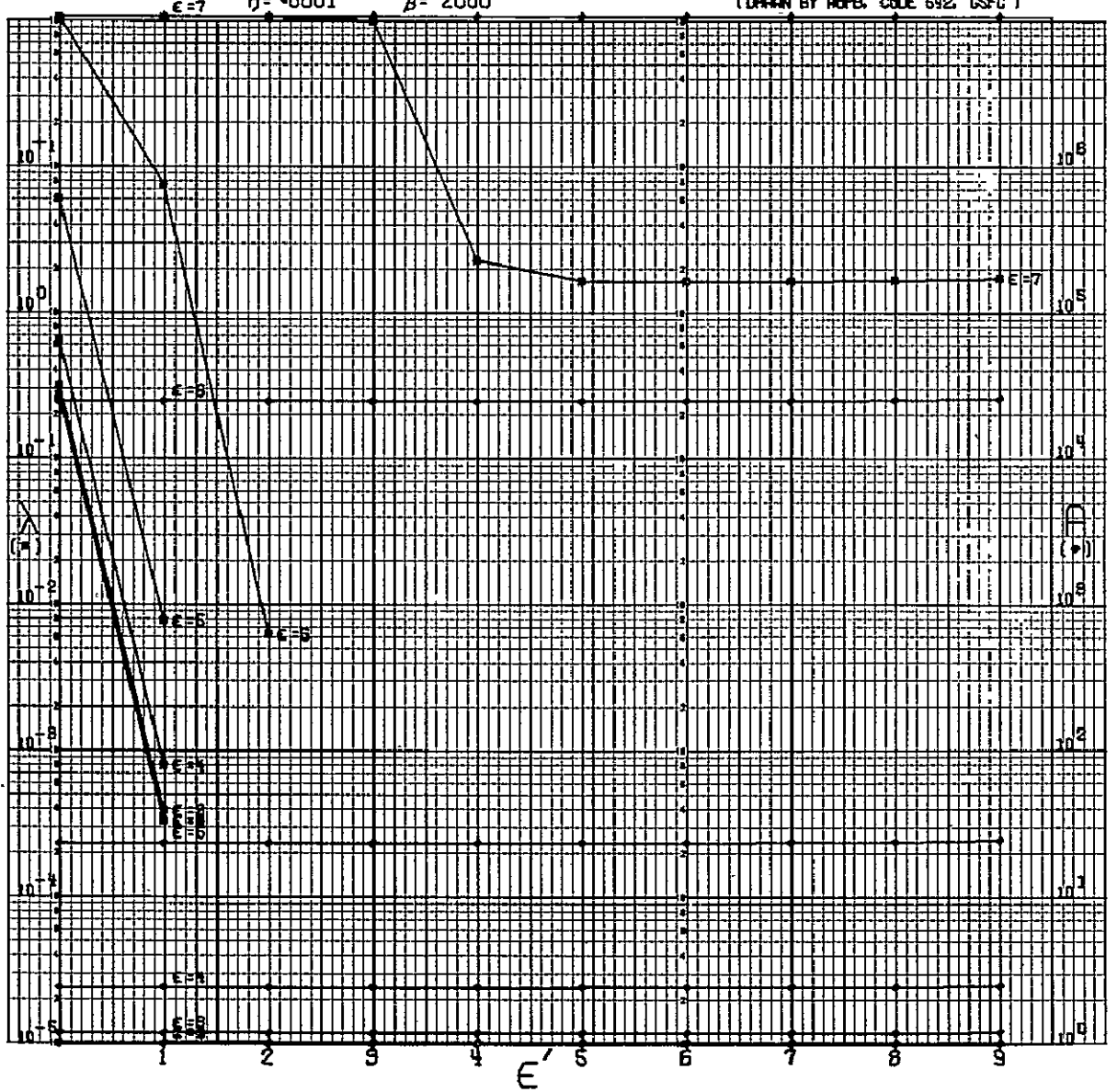
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 2000$

(DRAWN BY ROPEL CODE 592, GSFC)



N° 26

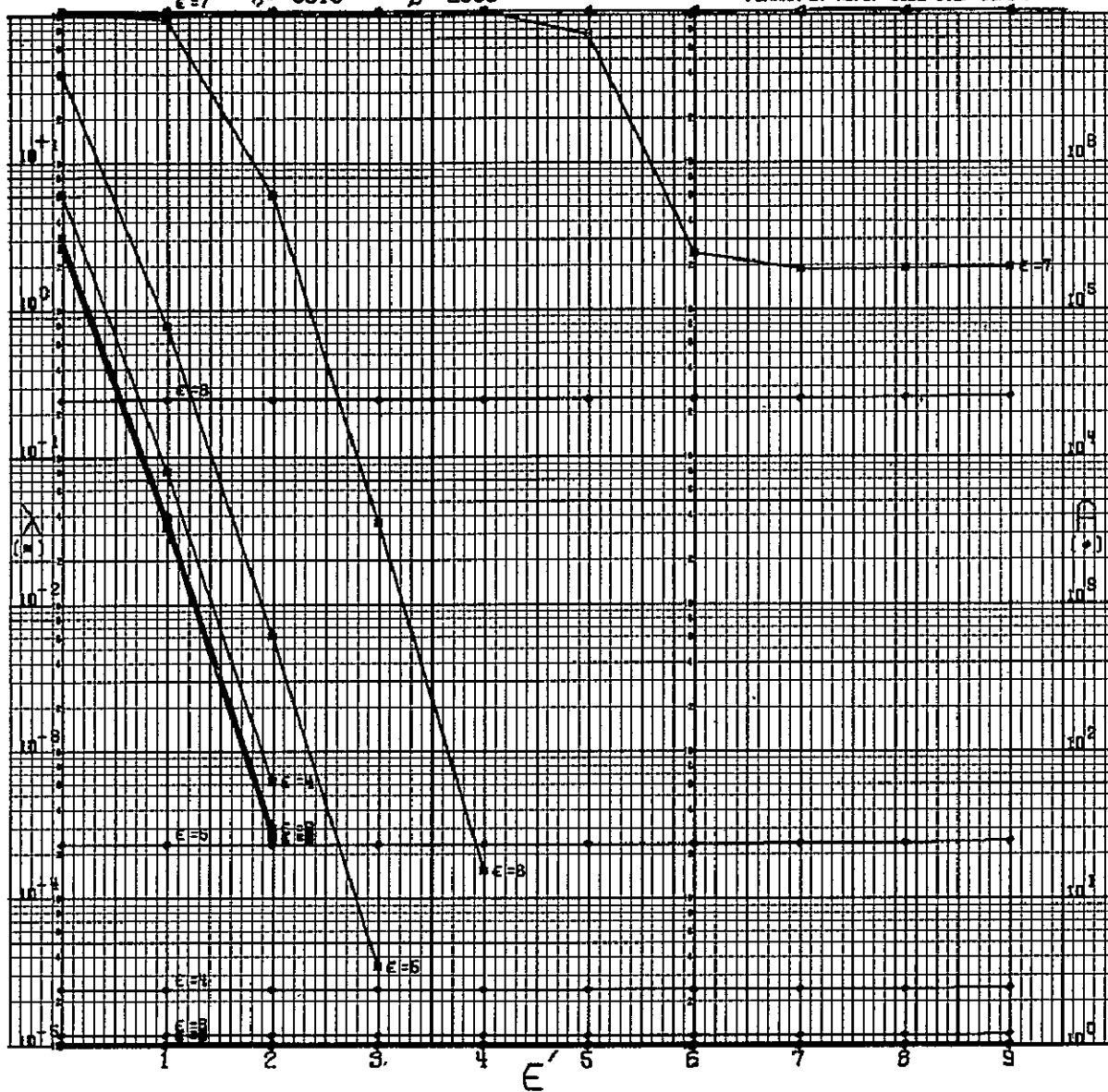
CODE 11111010011010110001000000

GSFC STANDARD

$\eta = +0010$

$\beta = 2000$

(DRAWN BY ROPB. CODE 512. GSFC)



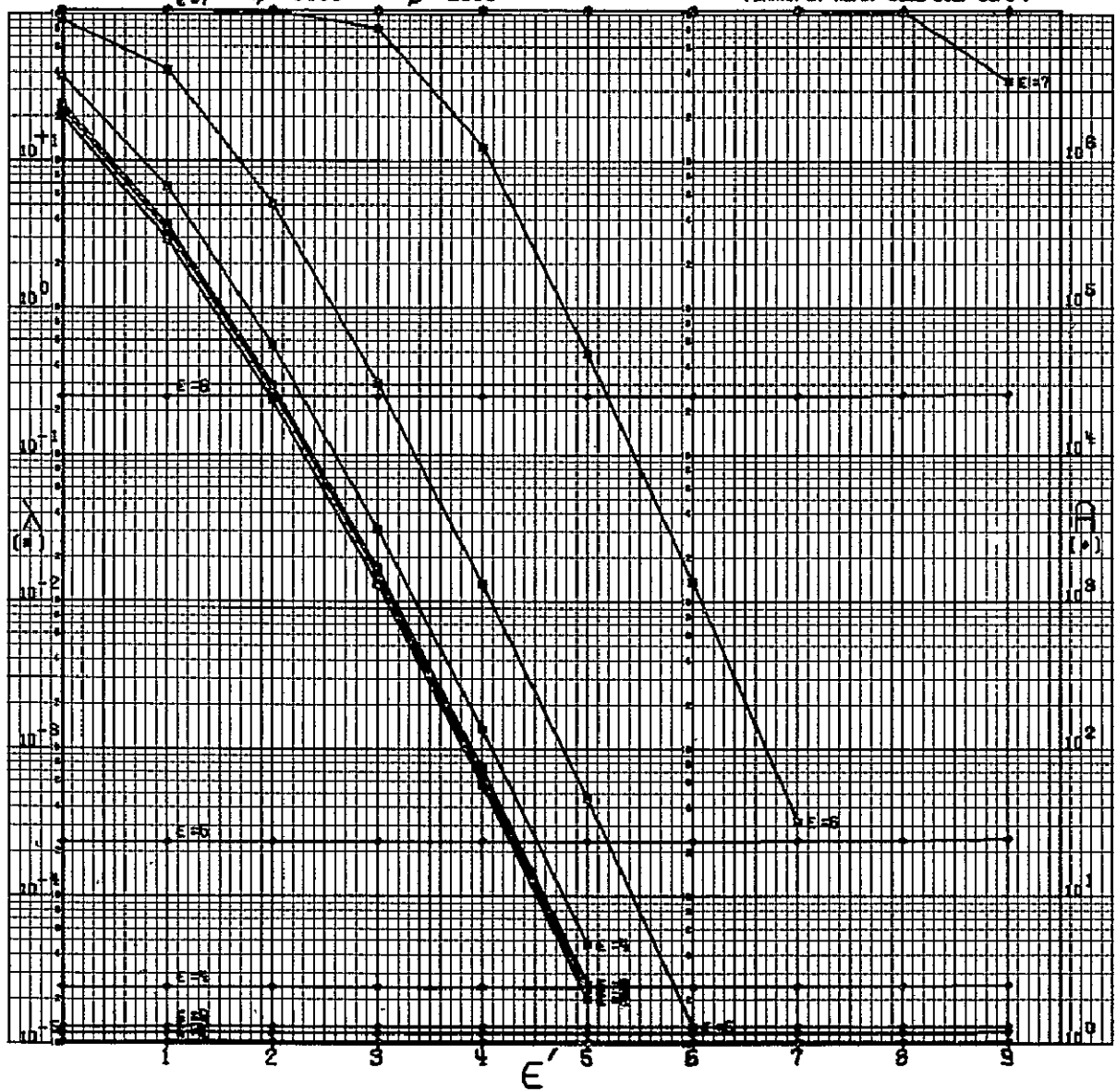
N = 26

CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon = 7$ $\eta = +0100$

$\beta = 2000$

(DRAWN BY AFPL CODE 542, GSFC)



N=26

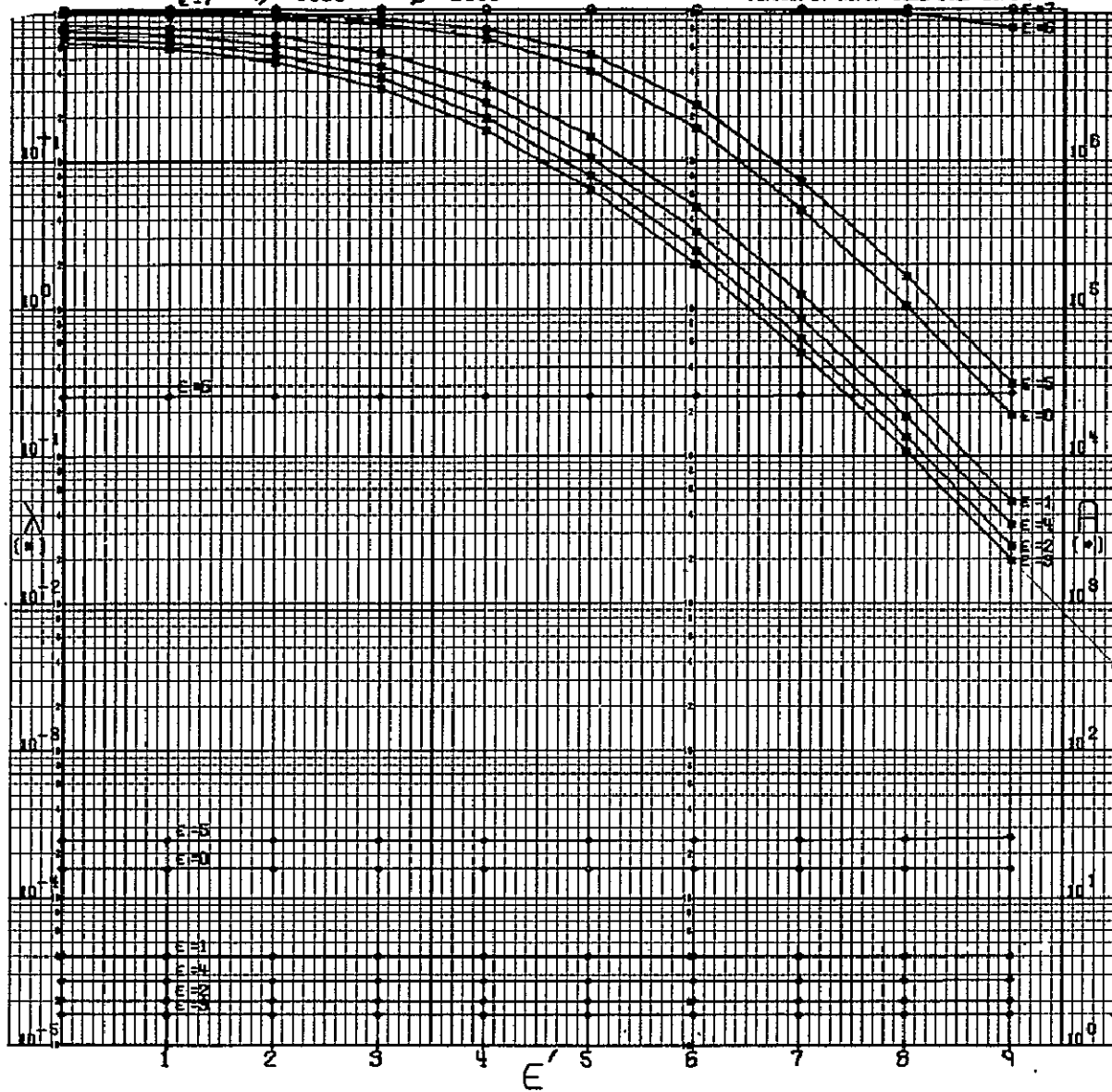
CODE 11111010011010110001000000
GFC STANDARD

$\epsilon = 7$

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPES CODE 512, GFC)



A-630

N*26

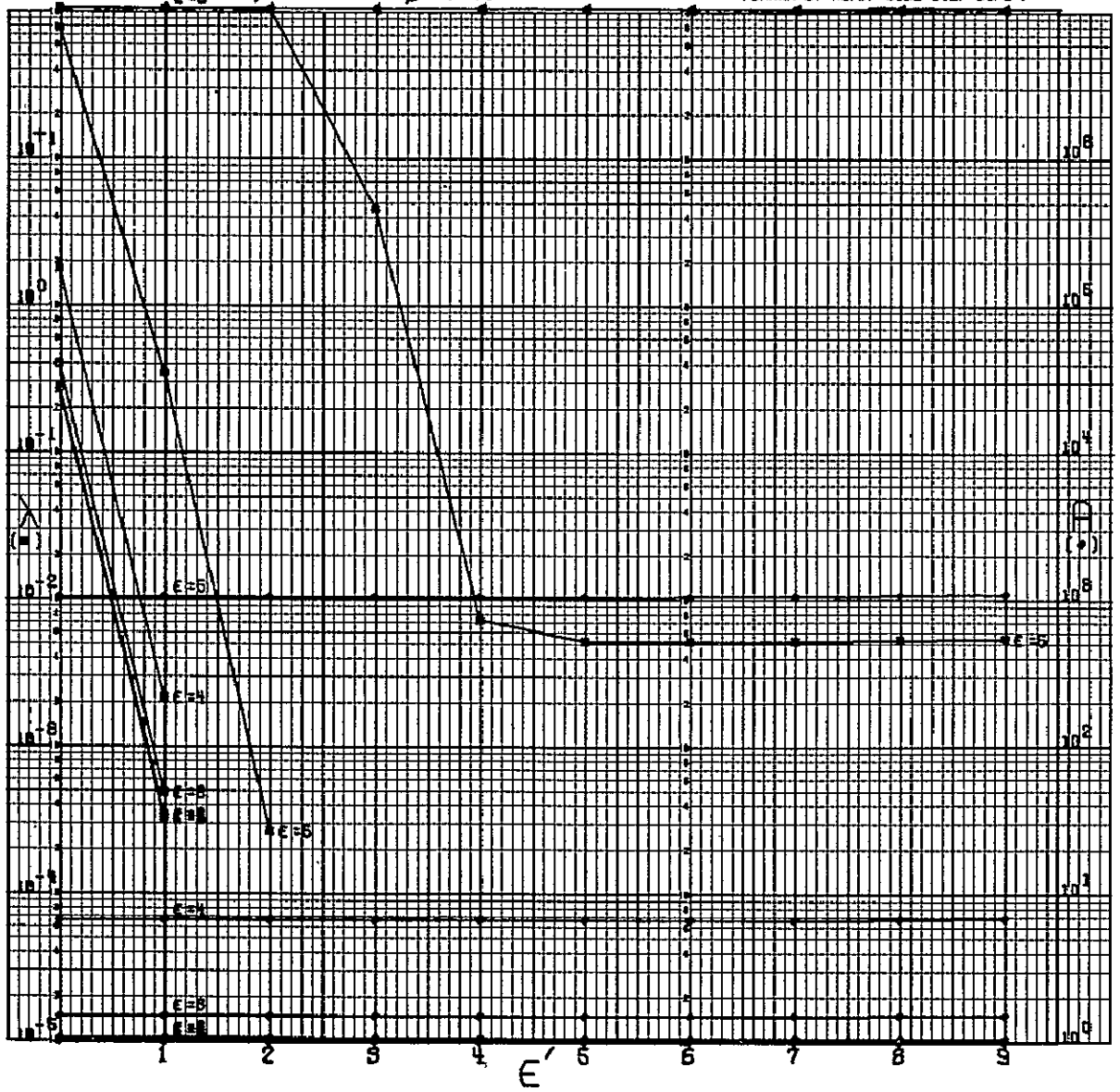
CODE 1111101001101010001000000

GSFC STANDARD

$\eta = 0.0031$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=26

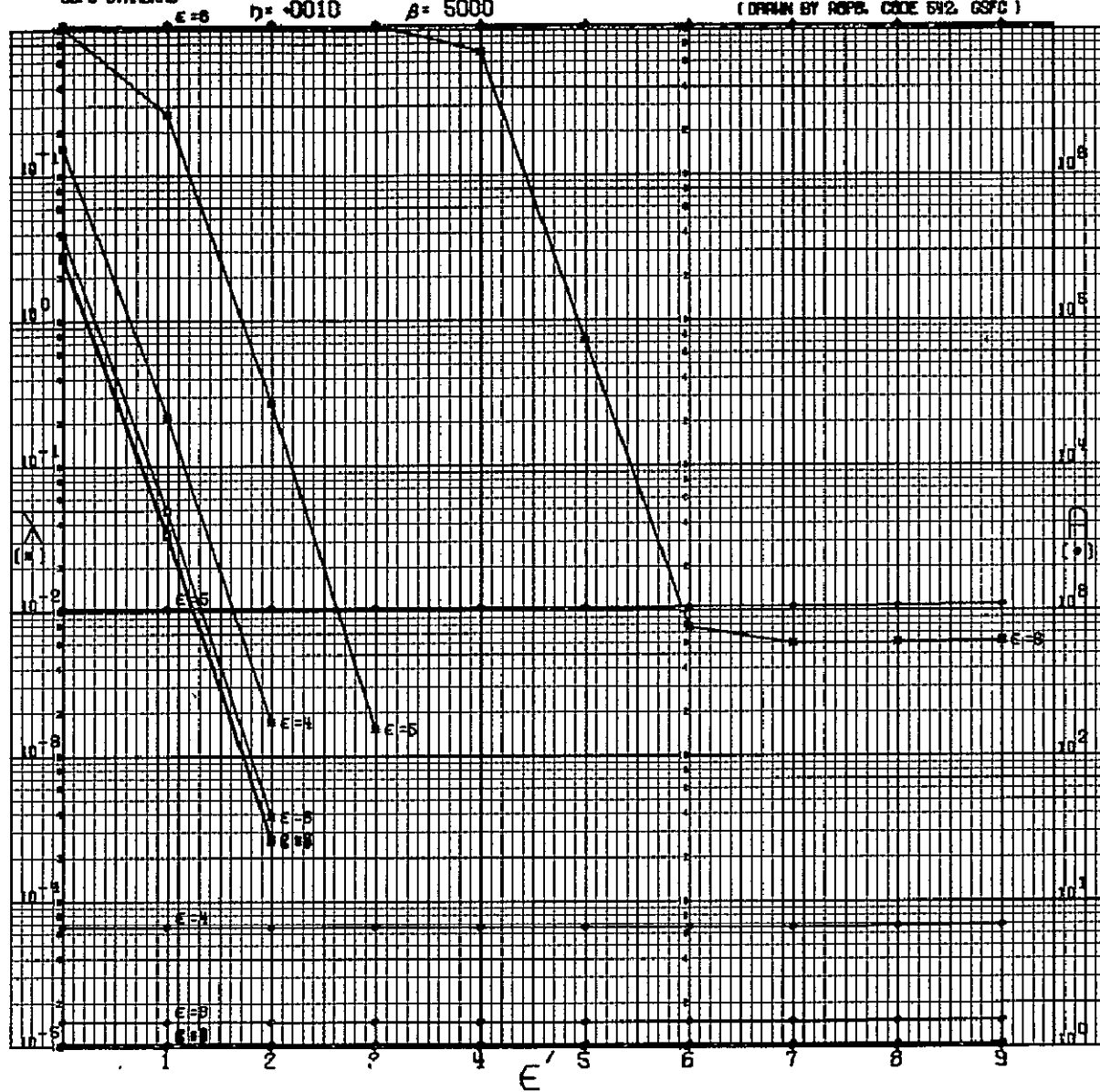
CODE 11111010011010110001000000

GSFC STANDARD

$\eta = -0010$

$\beta = 5000$

(DRAWN BY ROPE. CODE 542. GSFC)



A-632

N = 26

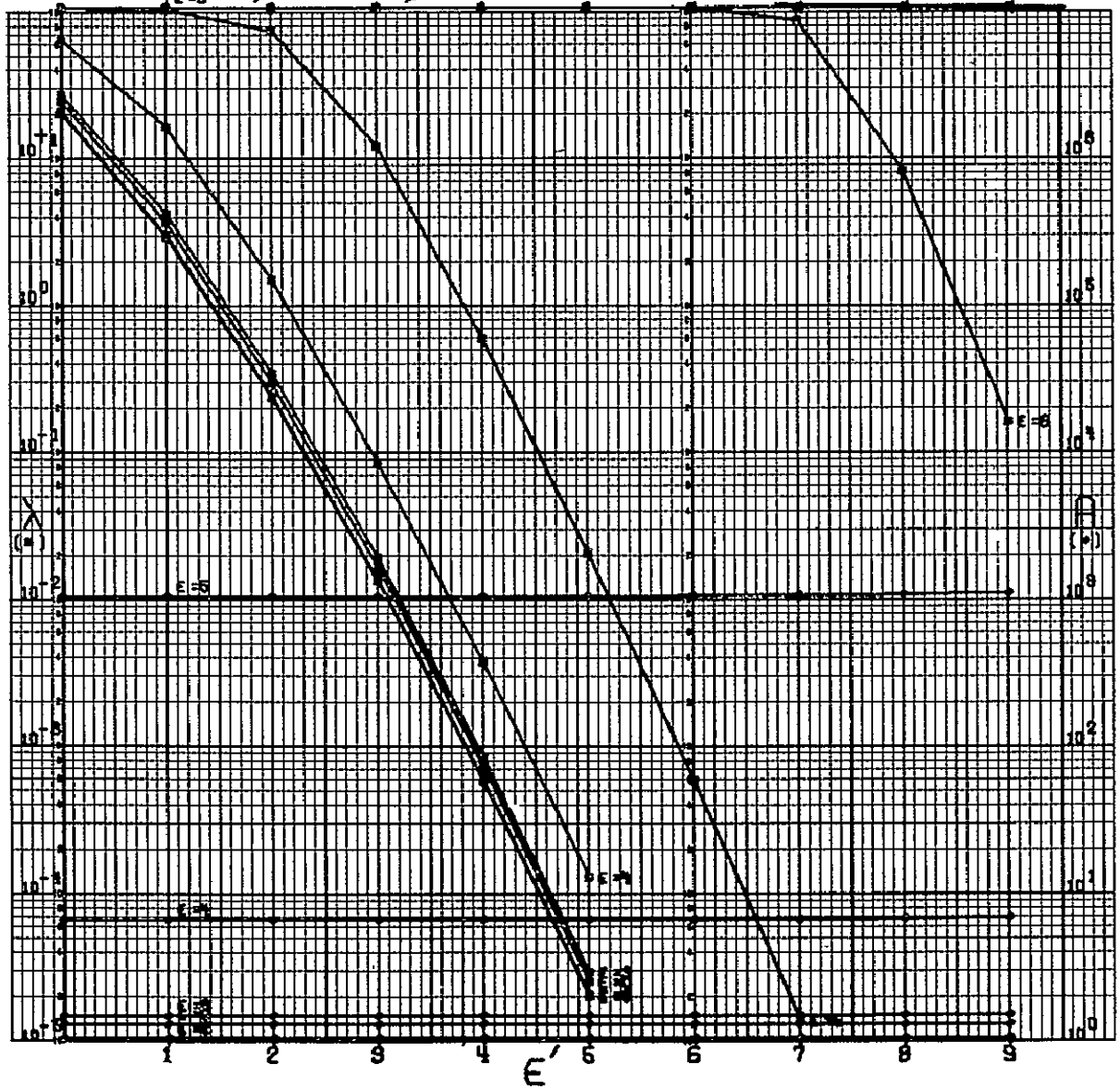
CODE 11111010011010110001000000

GSFC STANDARD

$\eta = +0100$

$\beta = 5000$

(OBTAIN BY APLD. CODE 512, GSFC)



N=26

CODE 1111101010101010001000000

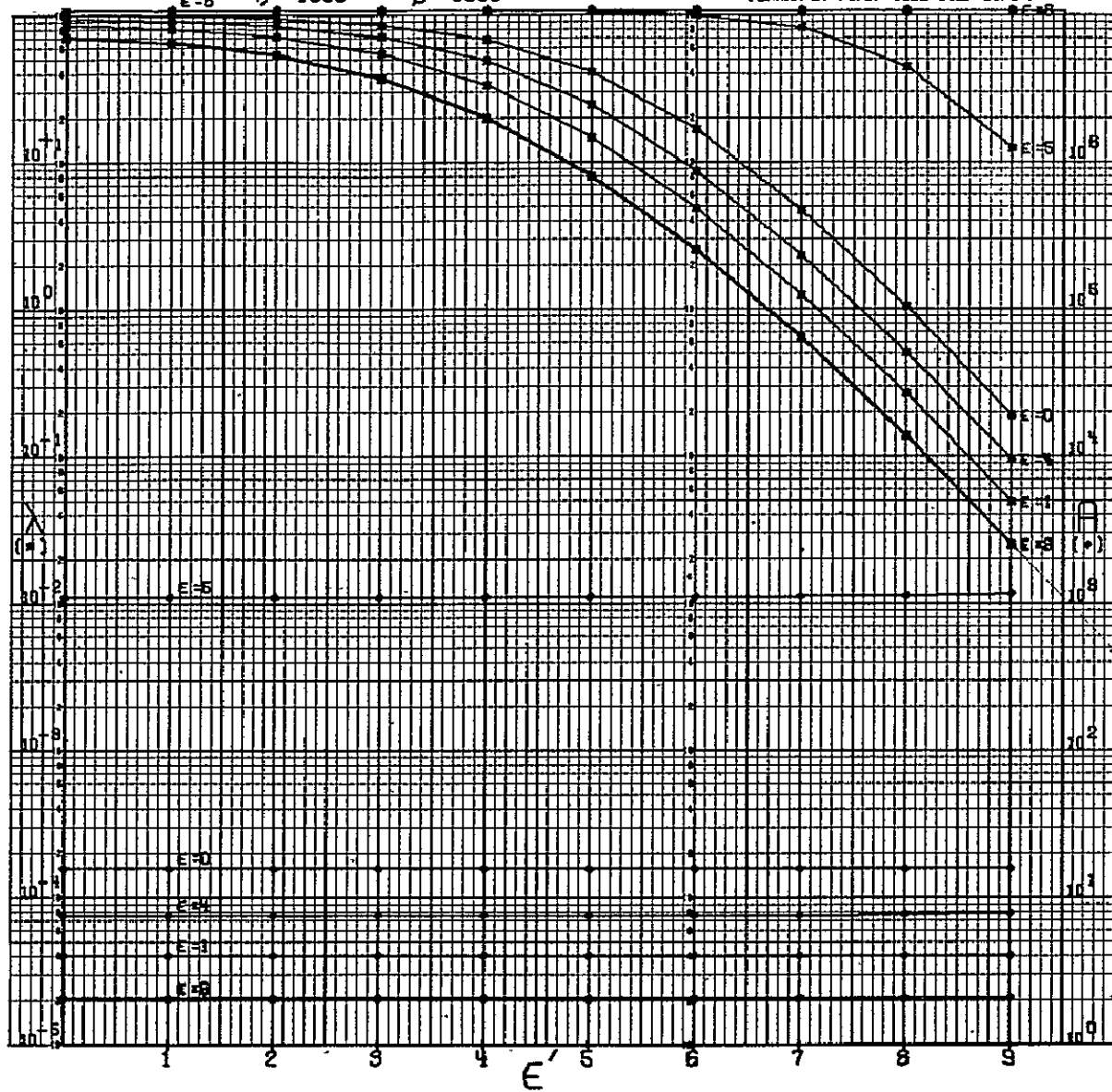
GSFC STANDARD

$E=8$

$\eta=1000$

$\beta=5000$

(DRAWN BY ROFB, CODE 542, GSFC)



A-634

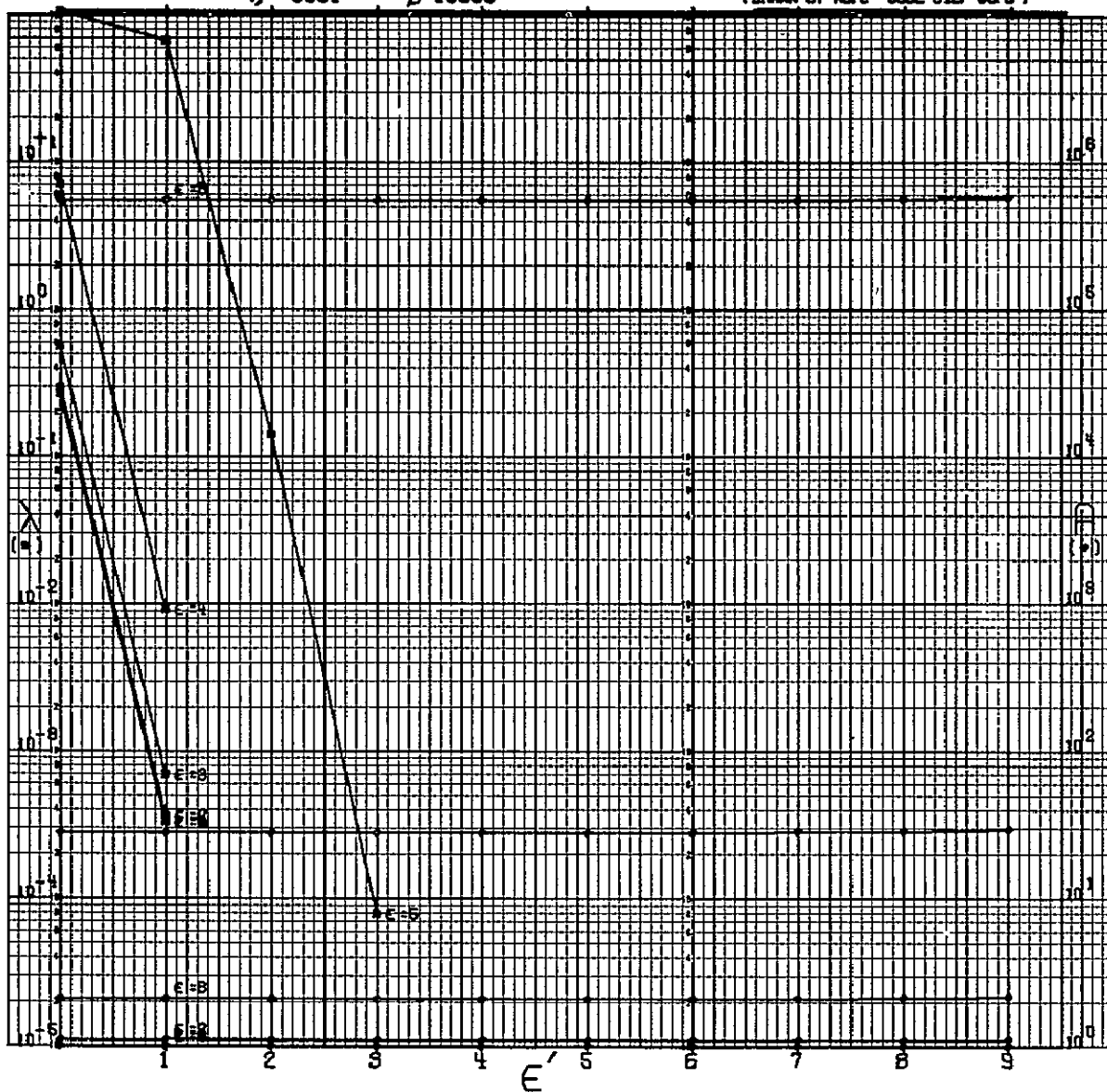
N=26

CODE 11131010011010110001000000
GFC STRONG

$\eta = 0.0001$

$\beta = 10000$

(DRAWN BY ROPO CODE 512 GFC)



A-635

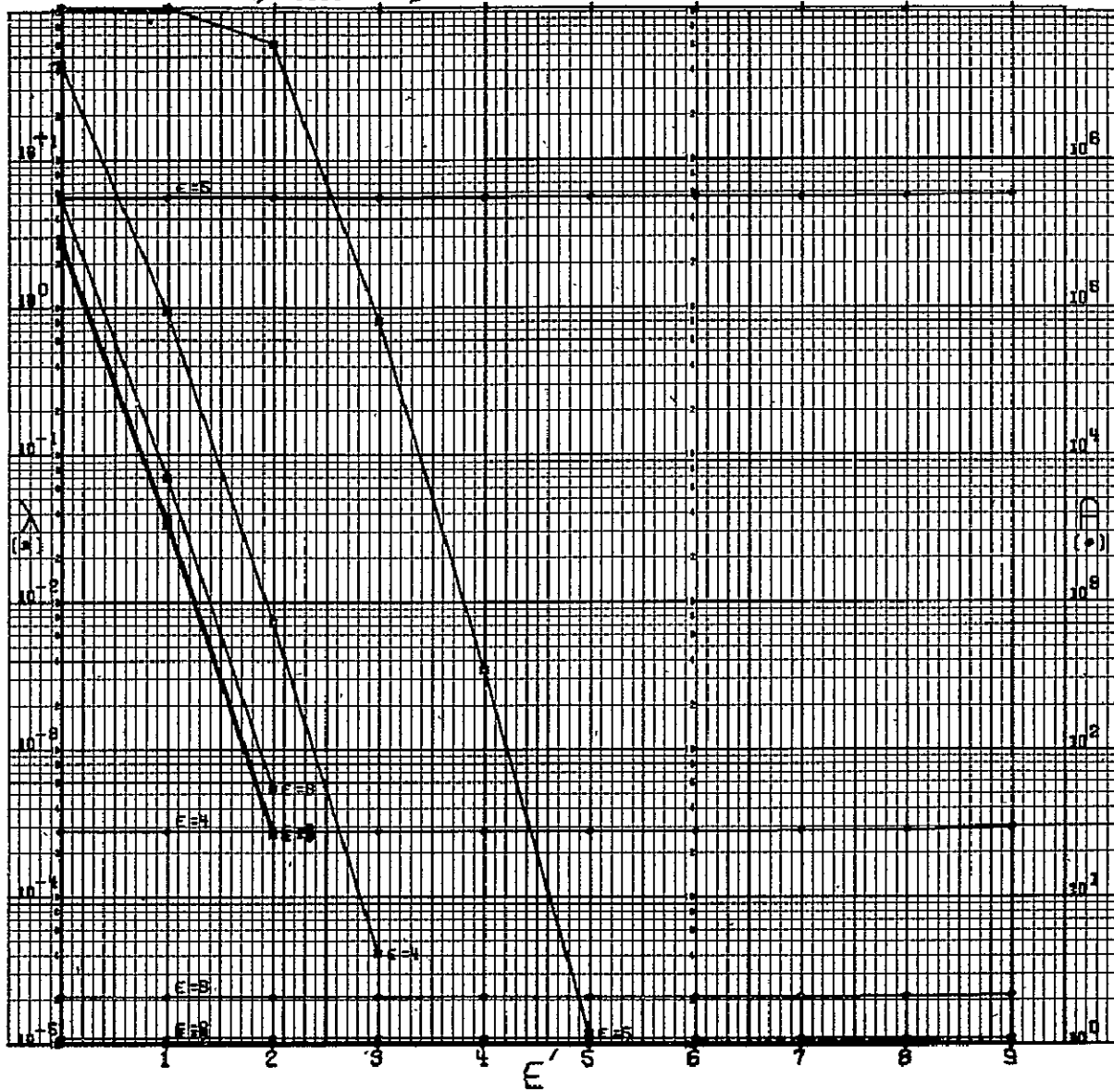
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = -0010$

$\beta = 10000$

(DRAWN BY ROPE, CODE 542, GSFC)



N*26

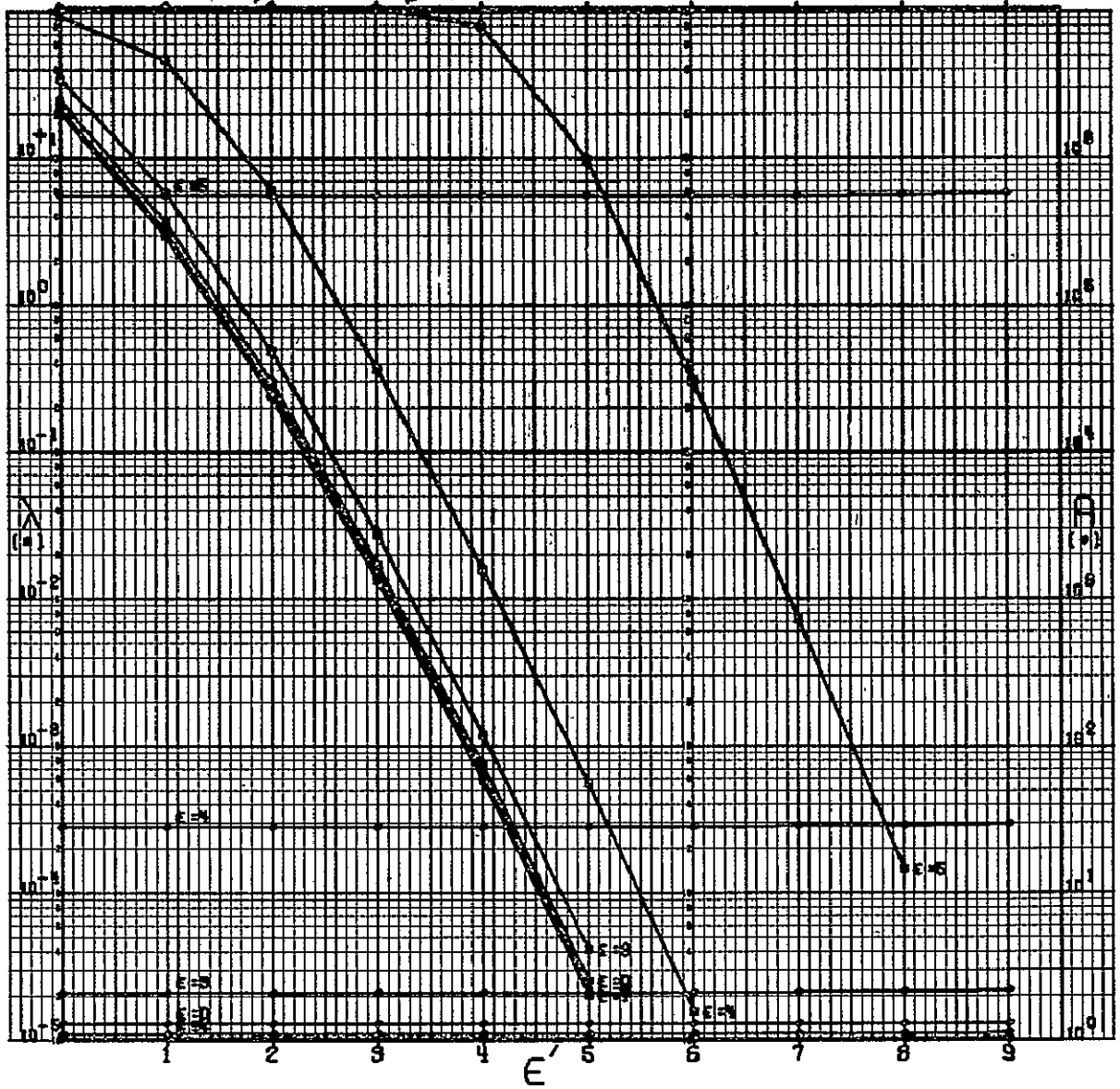
CDE 1111101001103011000000000

SFC STANDARD

$\eta = -0.100$

$\beta = 10000$

(GRAPH BY NAFS, CDE 012, 05FC)



A-637

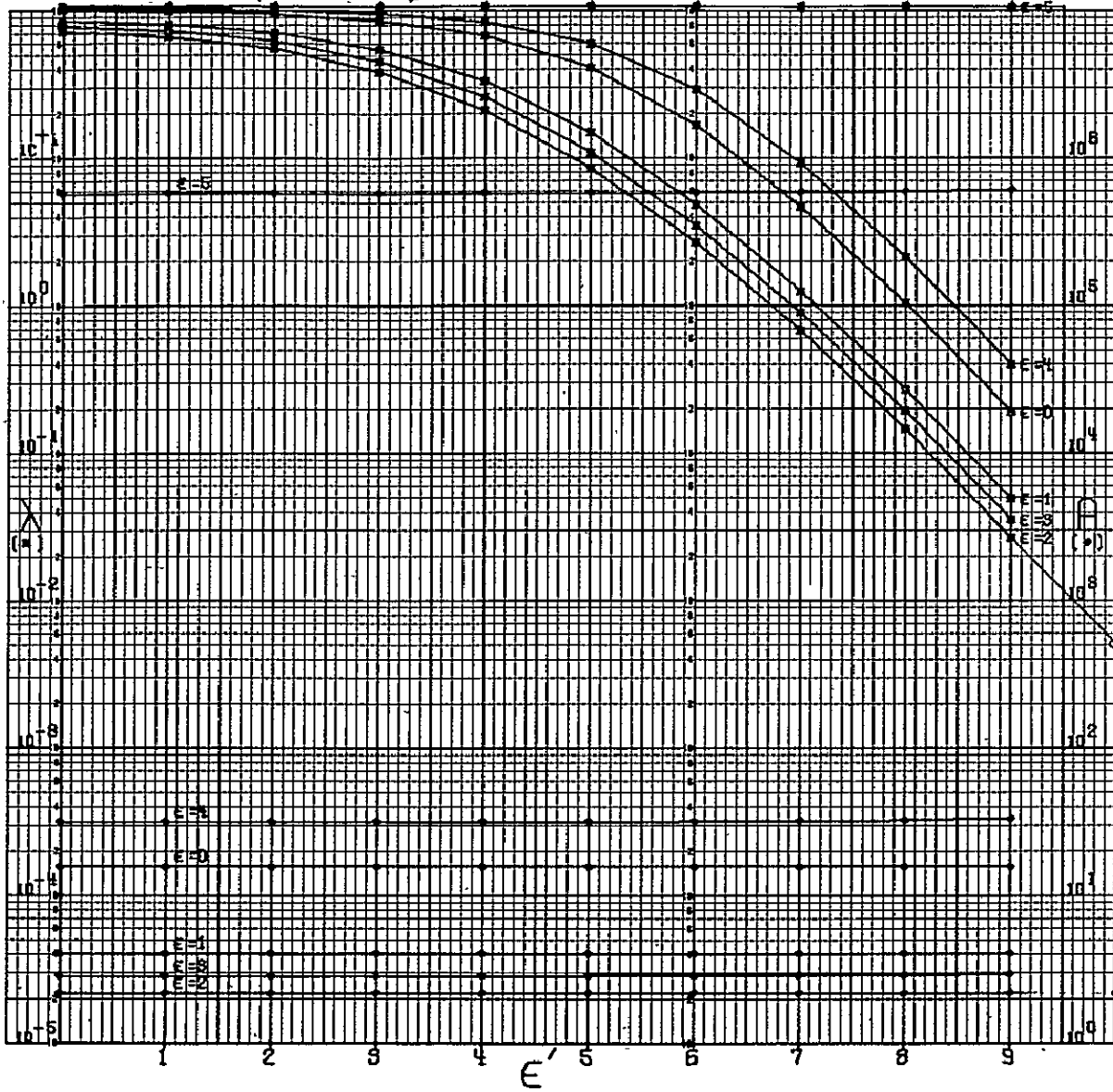
N=26

CODE 11111010011010110001000000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROFB, CODE 542, GSFC)



N = 26

CODE 11111010011010110001000000

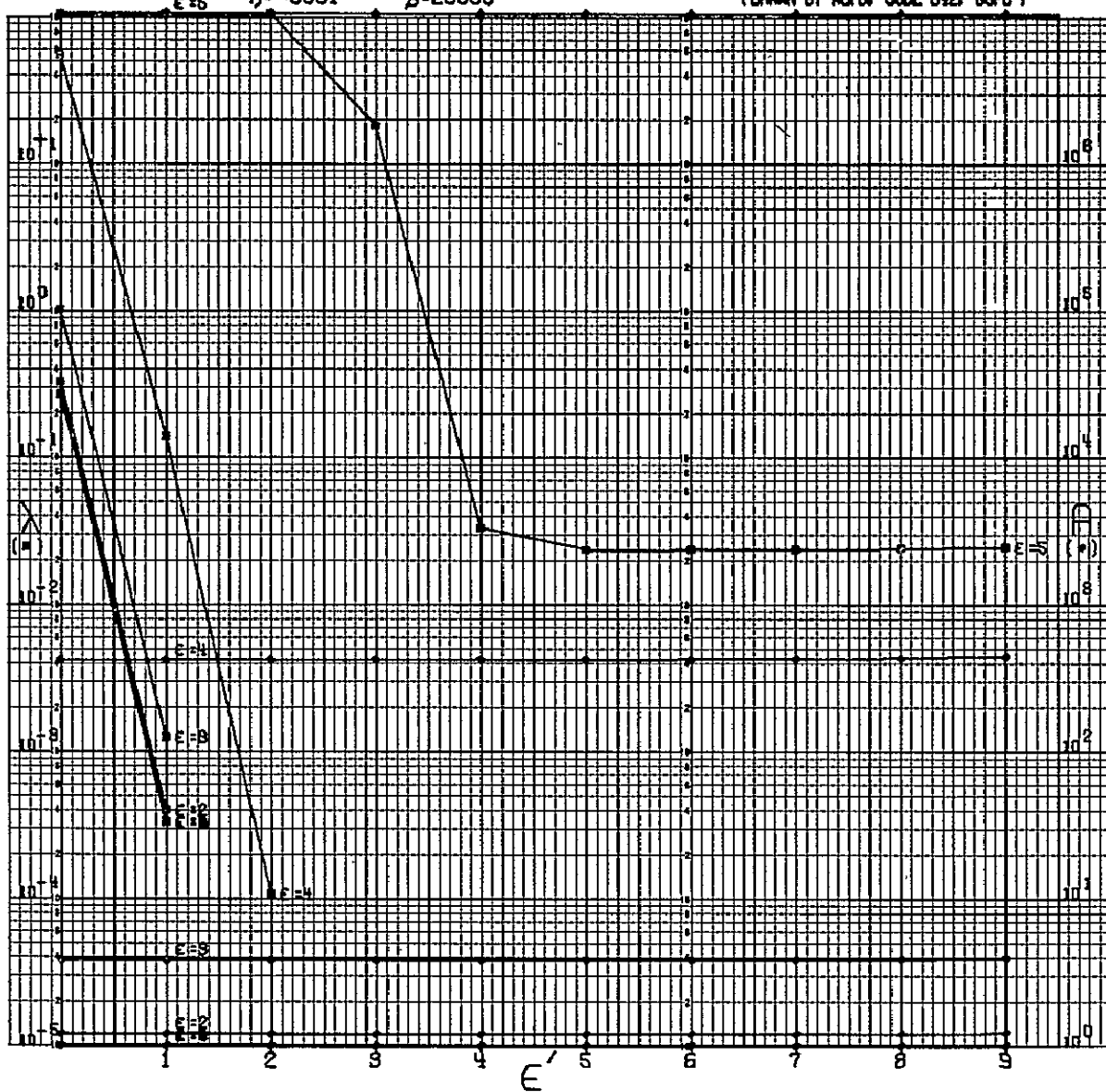
GSFC STANDARD

$\epsilon = 5$

$\eta = +0001$

$\beta = 20000$

(DRAWN BY ROPB, CODE 512, GSFC)



N=26

CODE 11111010011010110001000000

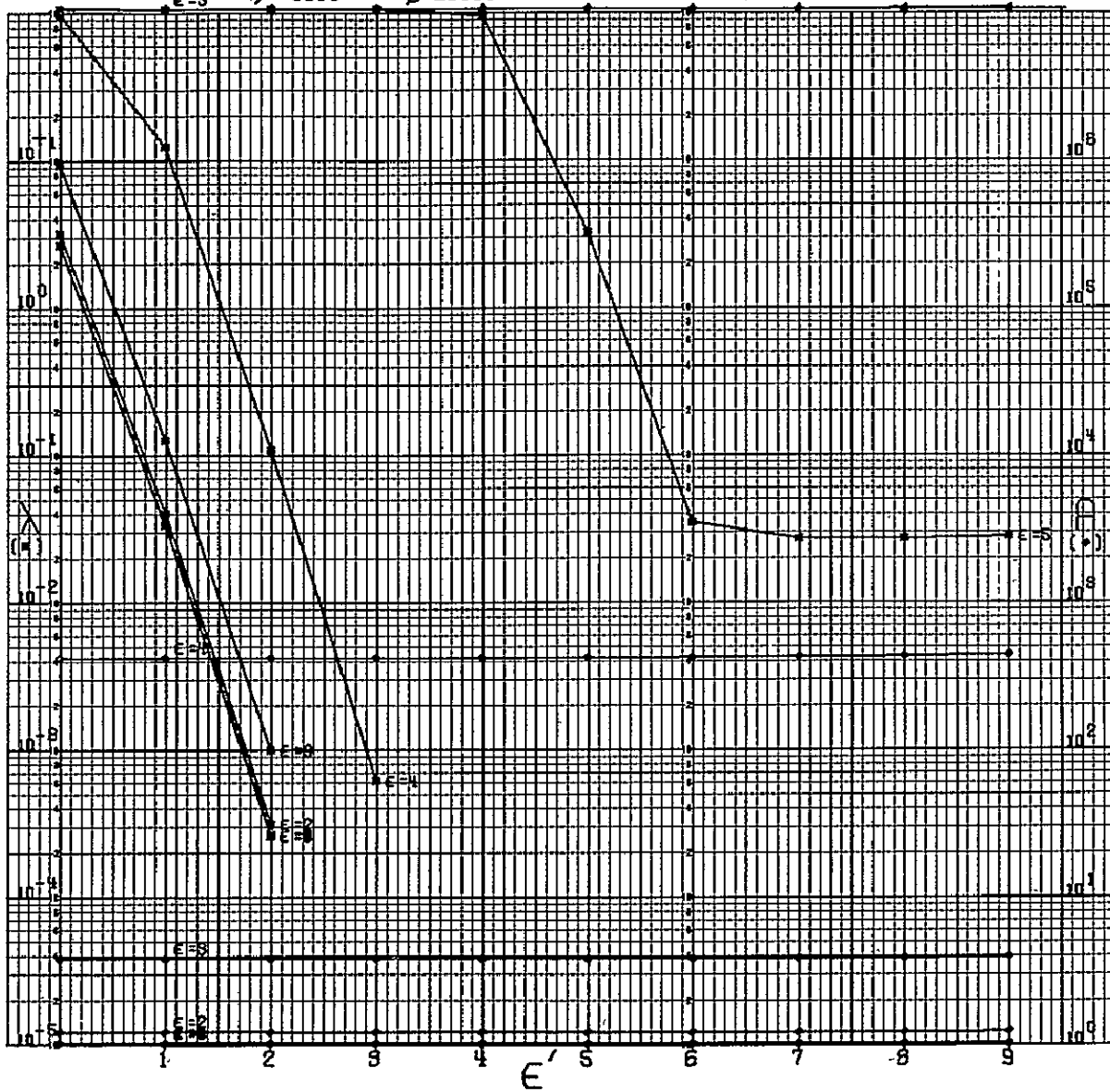
GSFC STANDARD

$\epsilon = 5$

$\eta = .0010$

$\beta = 20000$

(DRAWN BY ACPA CODE 542, GSFC)



A-640

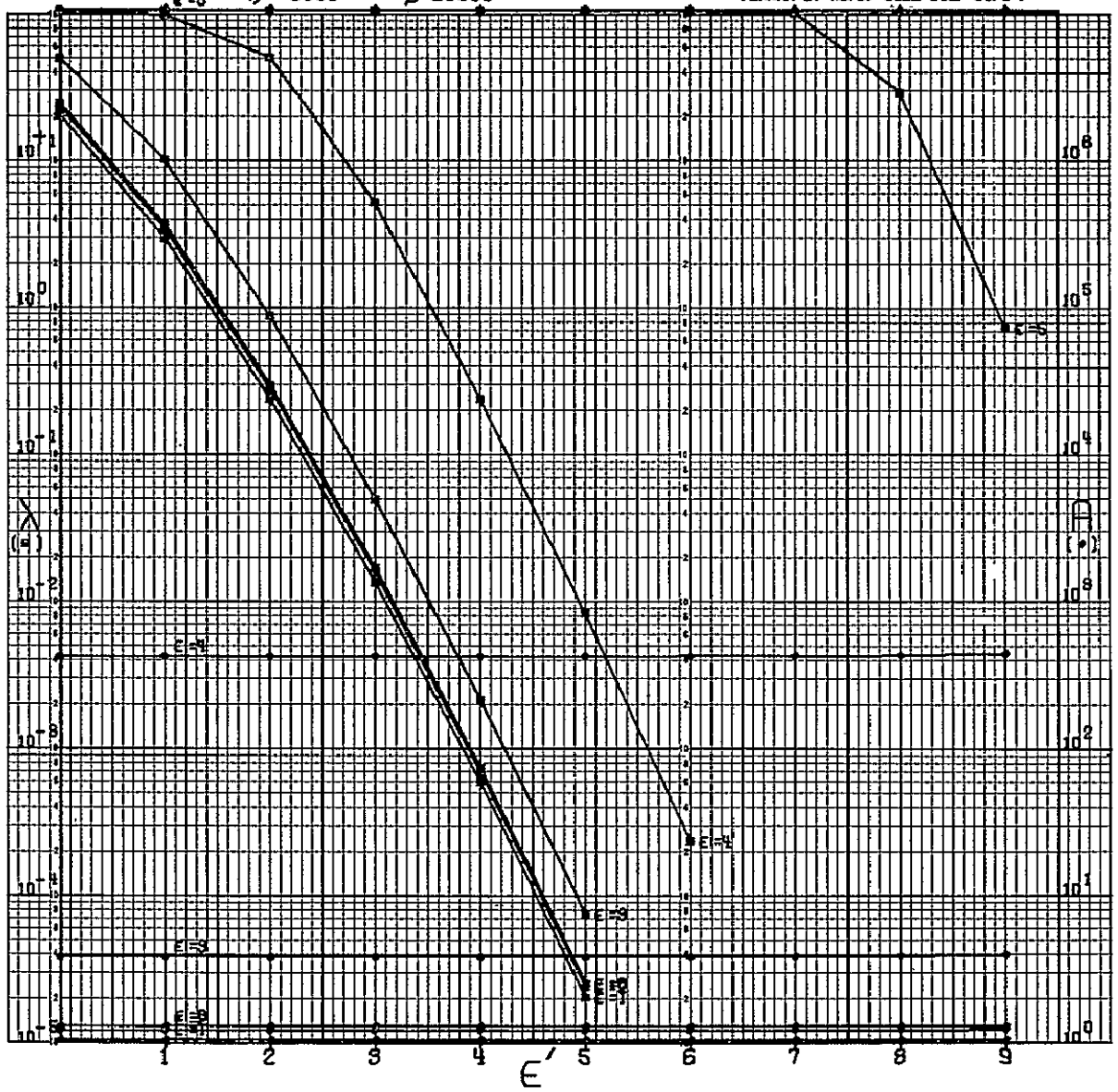
N=26

CODE 11111010011010110001000000
GFC STANDARD

$\eta = 0.100$

$\beta = 20000$

(DRAWN BY ROFS. CODE 692. GFC)



A-641

N=26

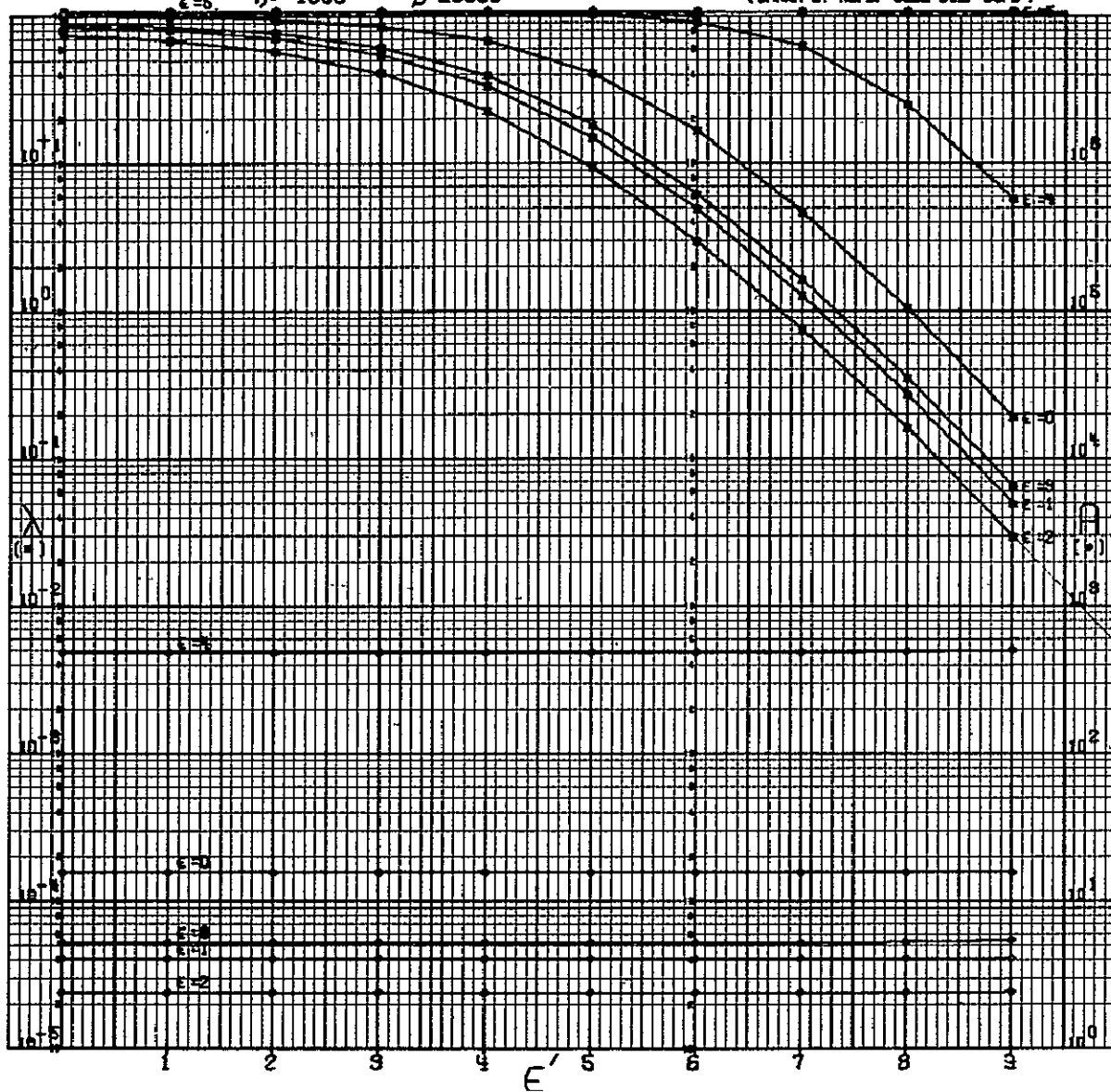
CODE 11111010011010110001000000
GSFC STANDARD

$\epsilon=5$

$\eta=1000$

$\beta=20000$

(ORIGIN BY ROPB, CODE 512, GSFC)



A-642

$$N = 27$$

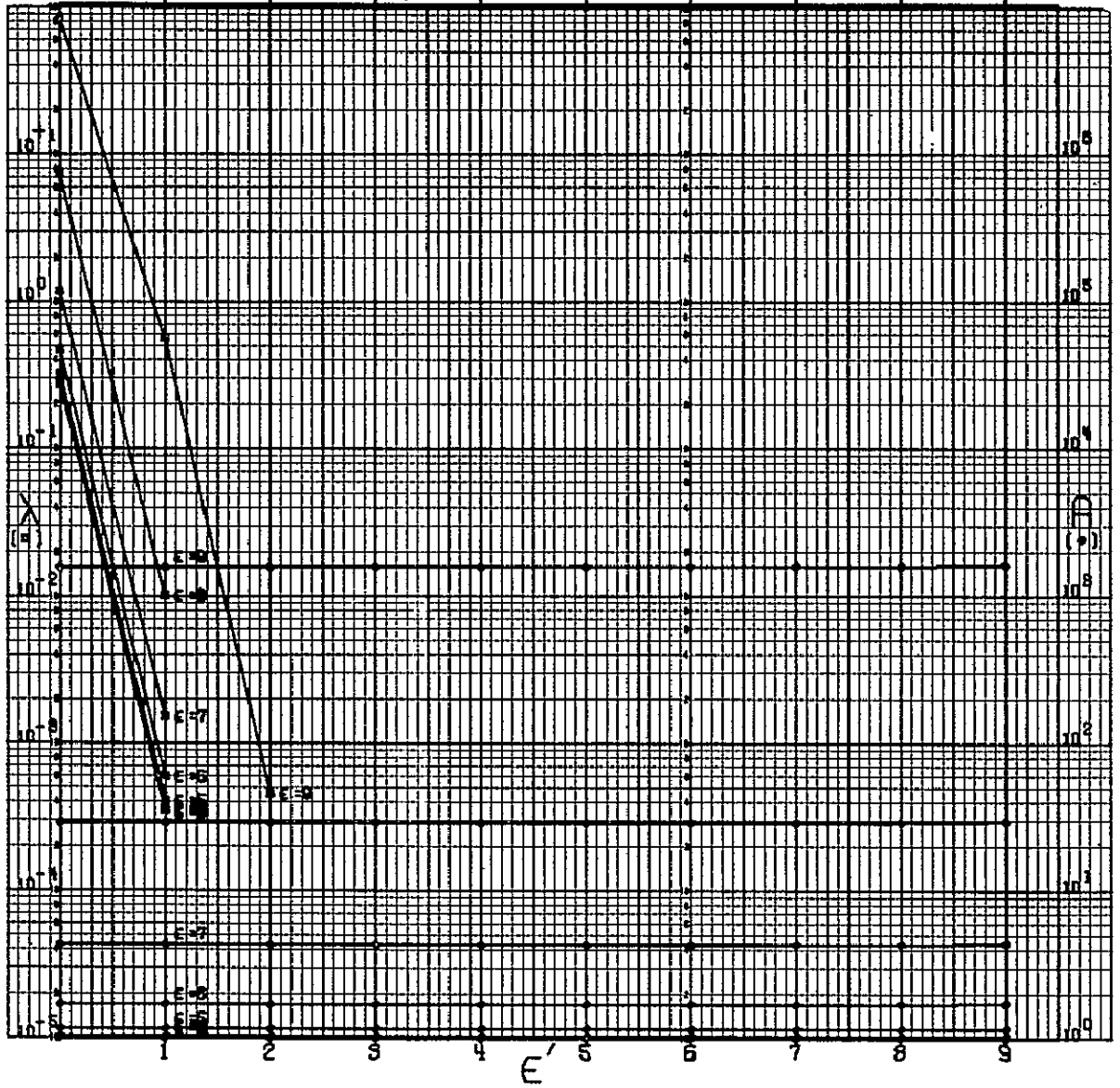
N=27

CSOE 111110101101001100110000000
GSPC STANDARD

$\eta = 0.001$

$\beta = 100$

(DRAWN BY ROPB. CODE 512. GSPC)



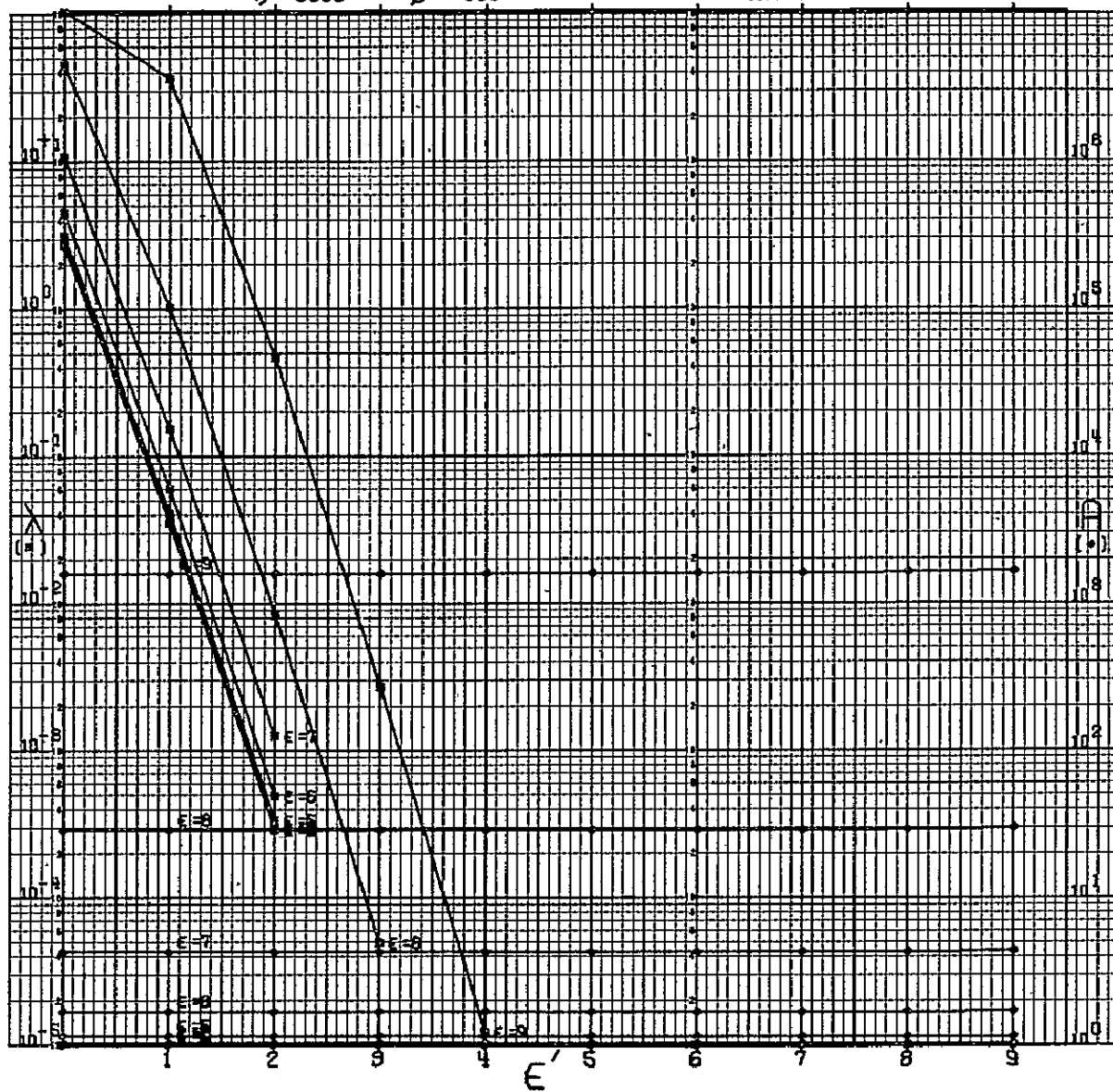
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ADPB, CODE 542, GSFC)



A-644

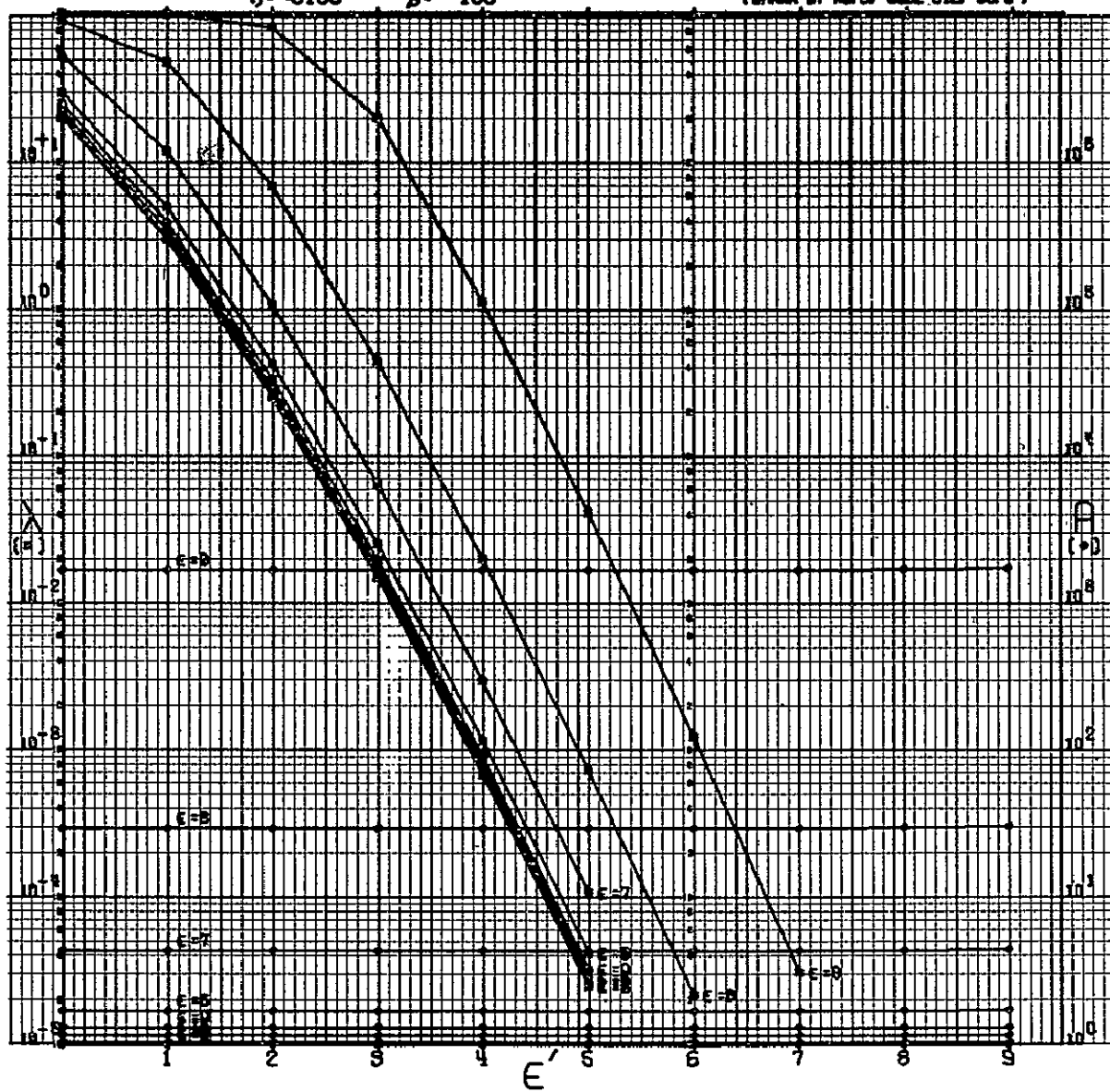
N=27

CODE 11110101101003100110000000
GFC STANDARD

$\eta = -0.100$

$\beta = 100$

(DRAWN BY ROPL. CODE 592. GFC)



A-645

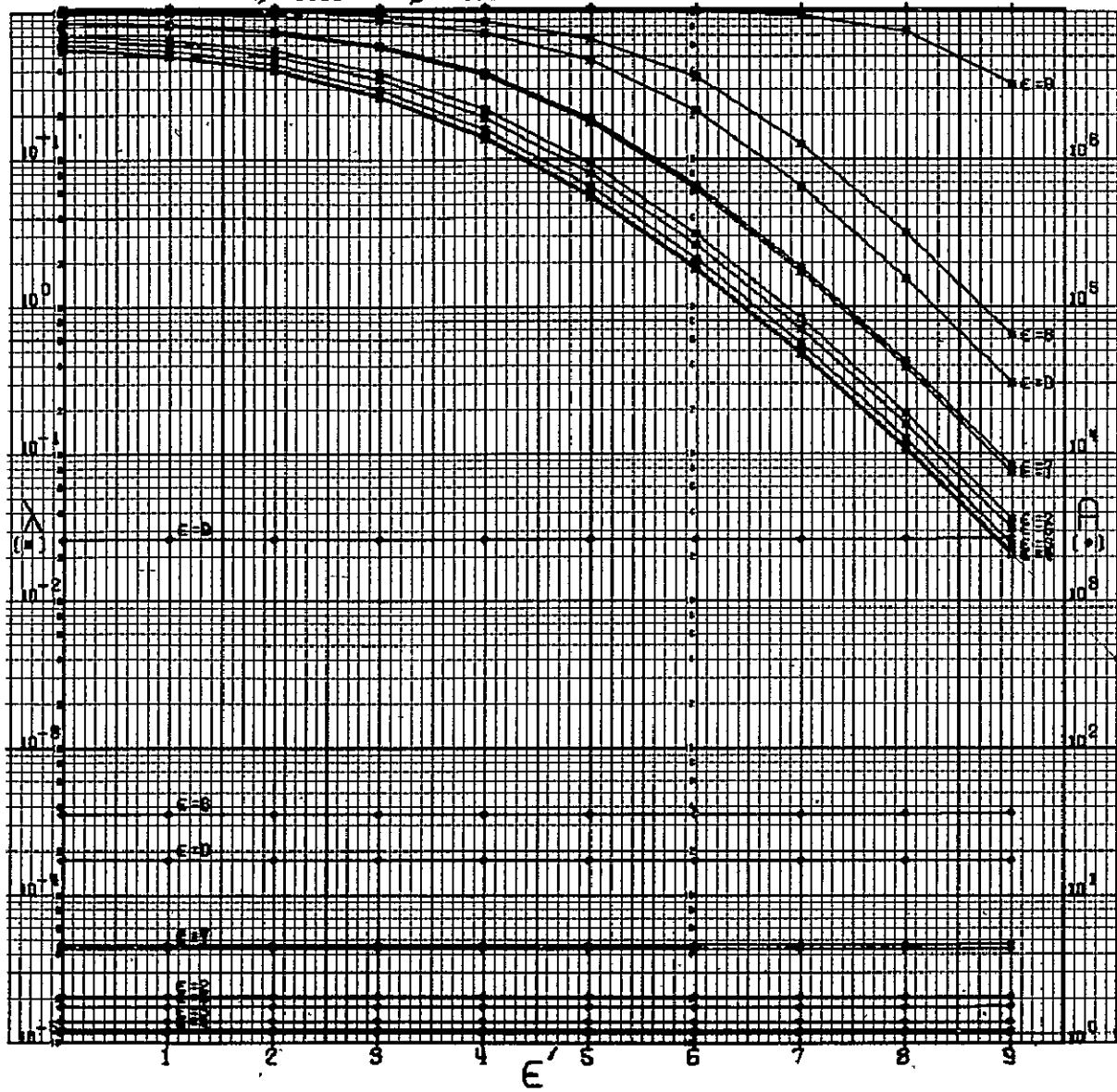
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



A-646

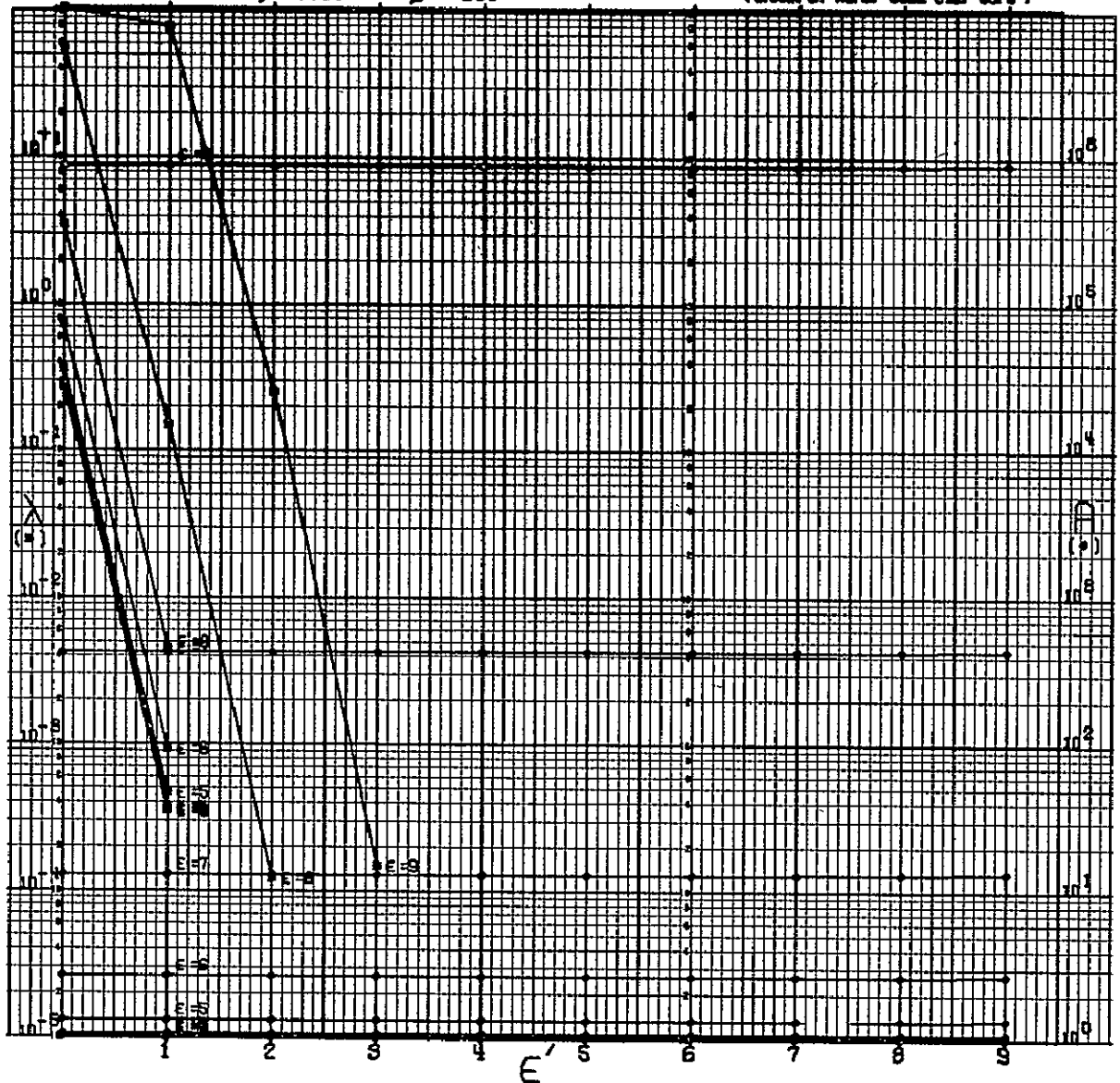
N=27

CODE 111101010101000100110000000
GFC STANDARD

$\eta = -0001$

$\beta = 200$

(GRAPH OF REPR. CODE 512. GFC)



A-647

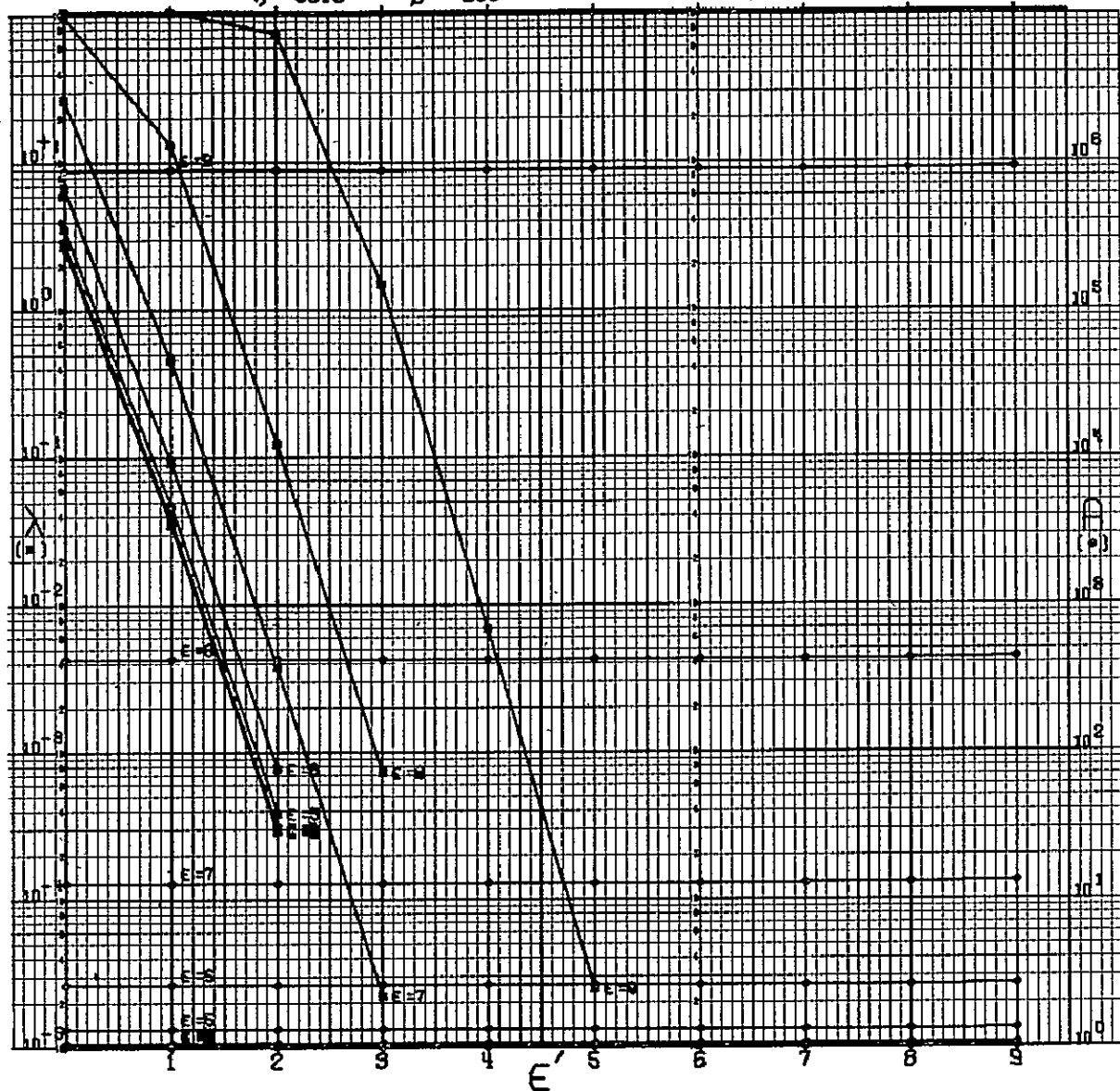
N=27

CODE 111110101101001100110000000
GFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ADPBL CODE 542, GSCD)



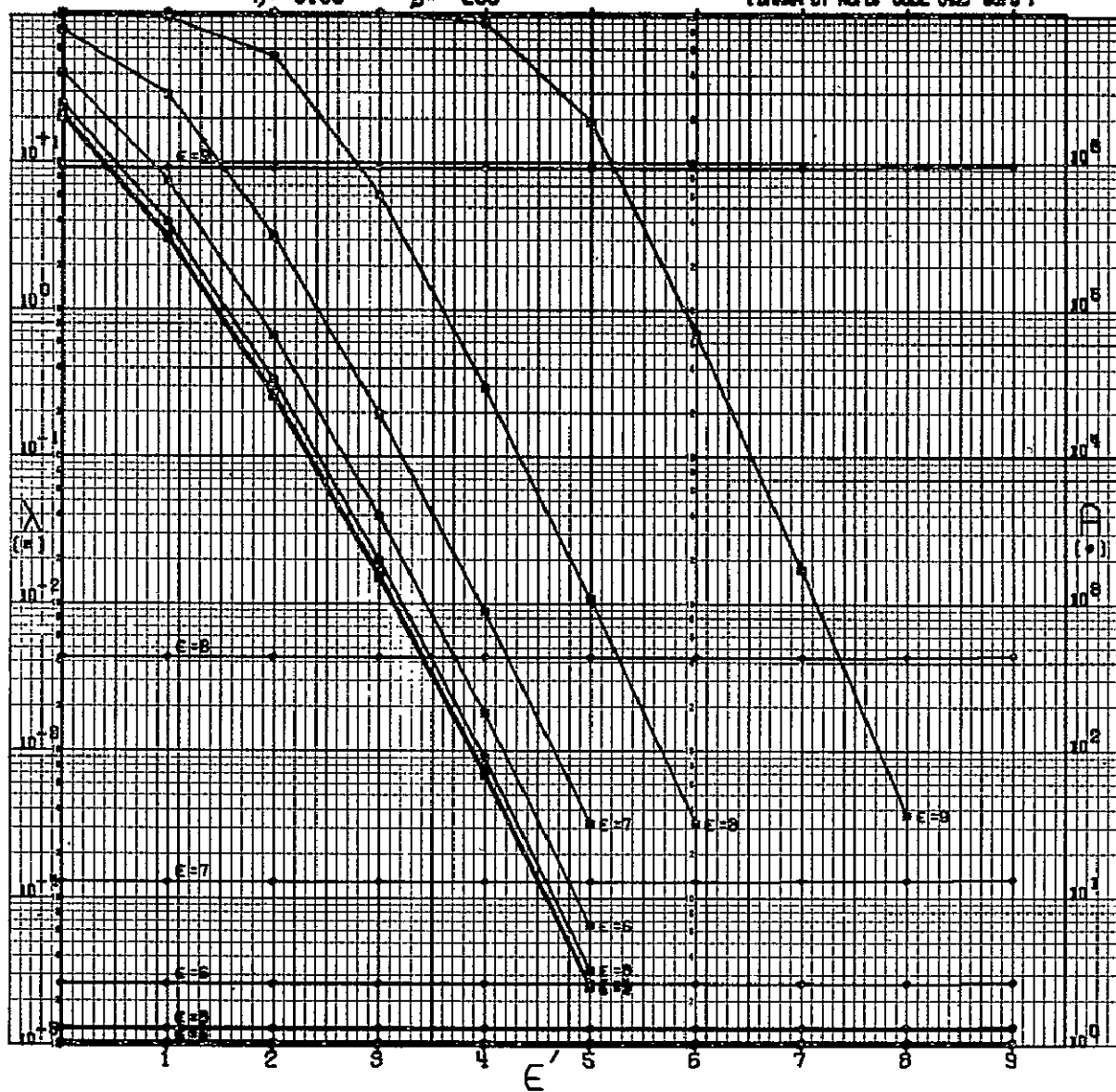
N=27

CODE 111110101101001100110000000
GFC STANDARD

$\eta = -0.100$

$\beta = 200$

(DRAWN BY ROPE CODE 512, GFC)



N=27

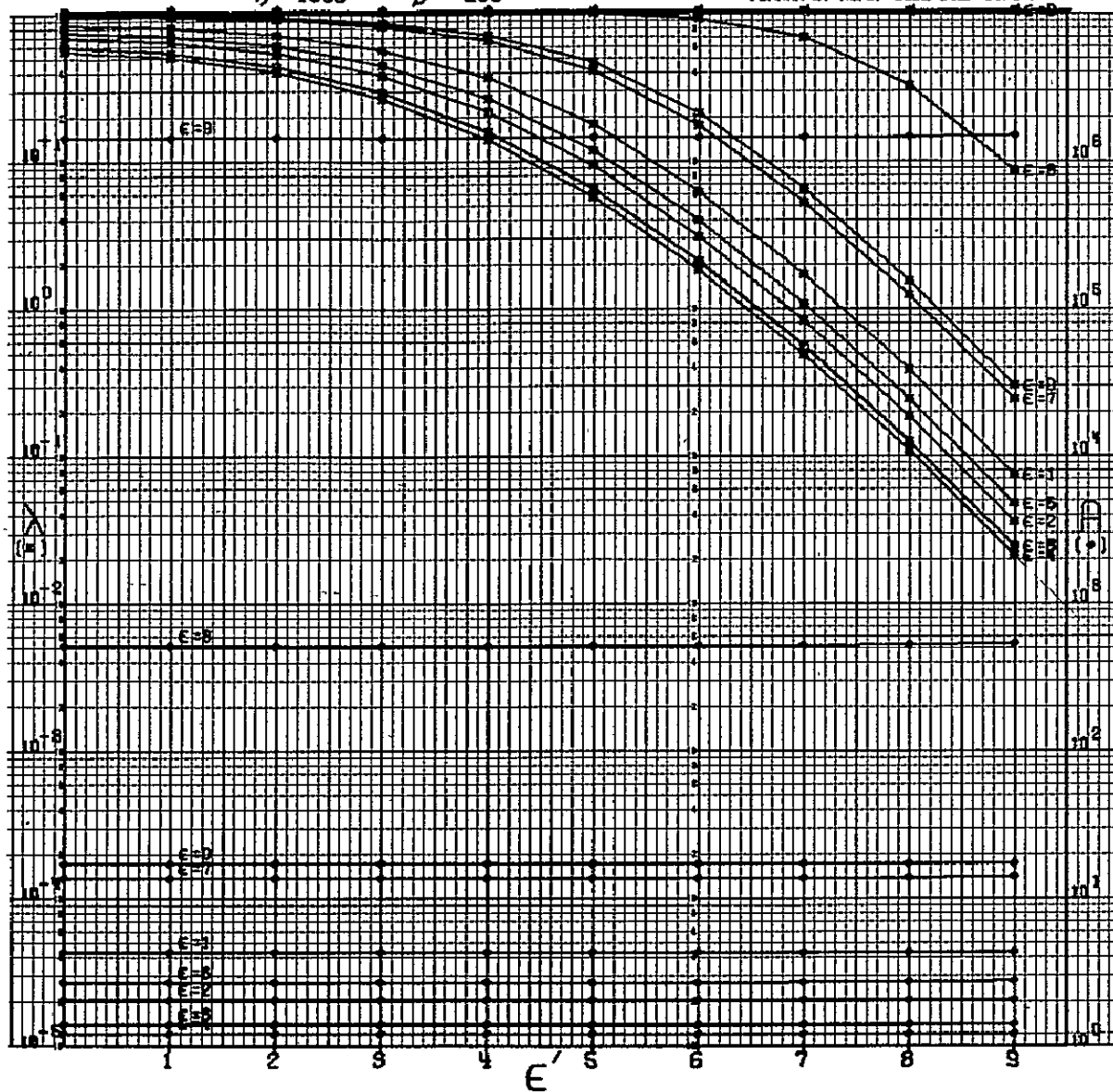
CODE 111110101101001100110000000

GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



A-650

N=27

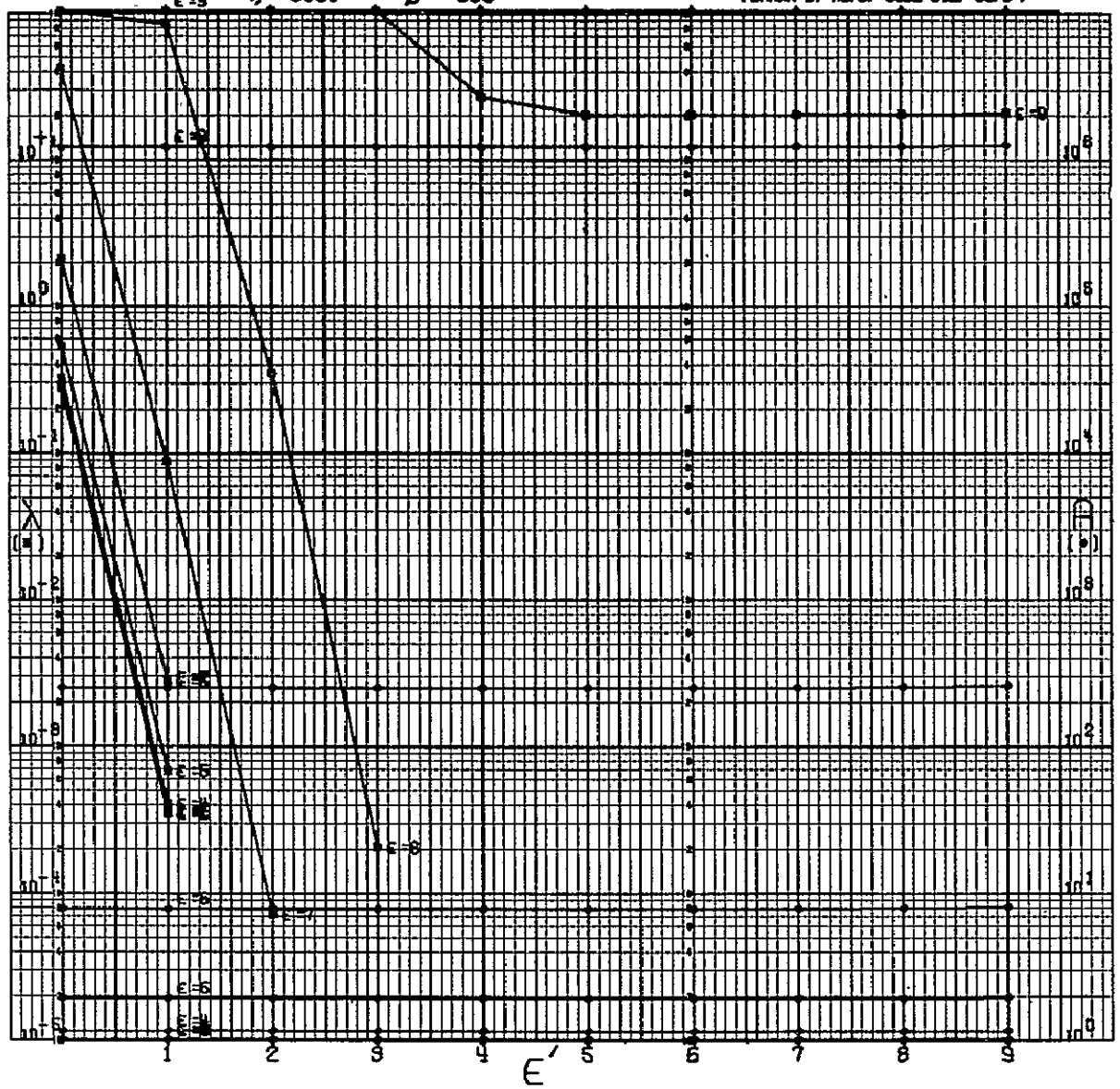
CODE 111110101101001100110000000
GSFC STANDARD

$\epsilon = 9$

$\eta = -0001$

$\beta = 500$

(DRAWN BY ROFS CODE 512 GSFC)



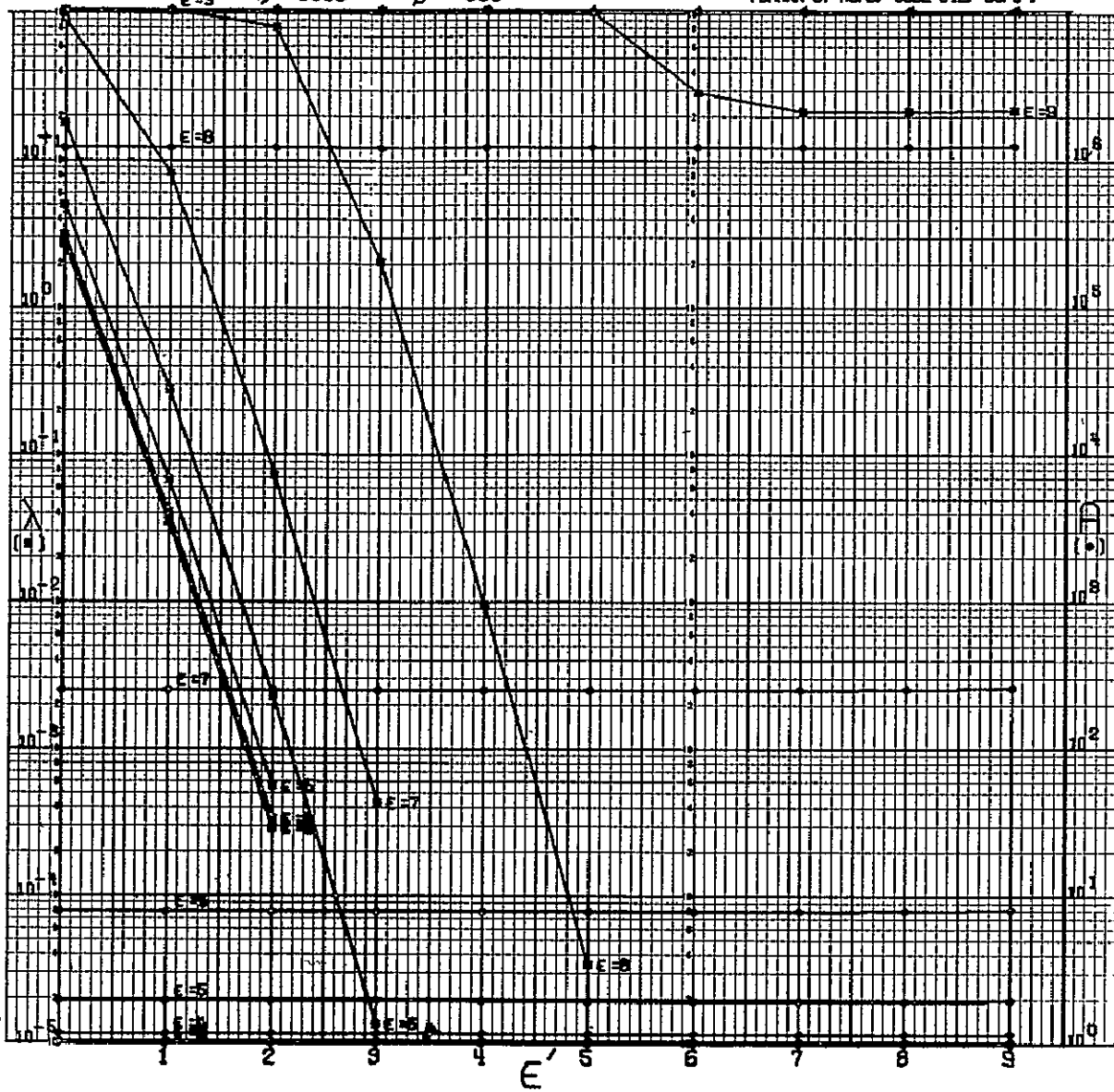
N=27

CASE 111110101101001100110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)



A-652

Nº 27

2000 71571031541001002110001702003300

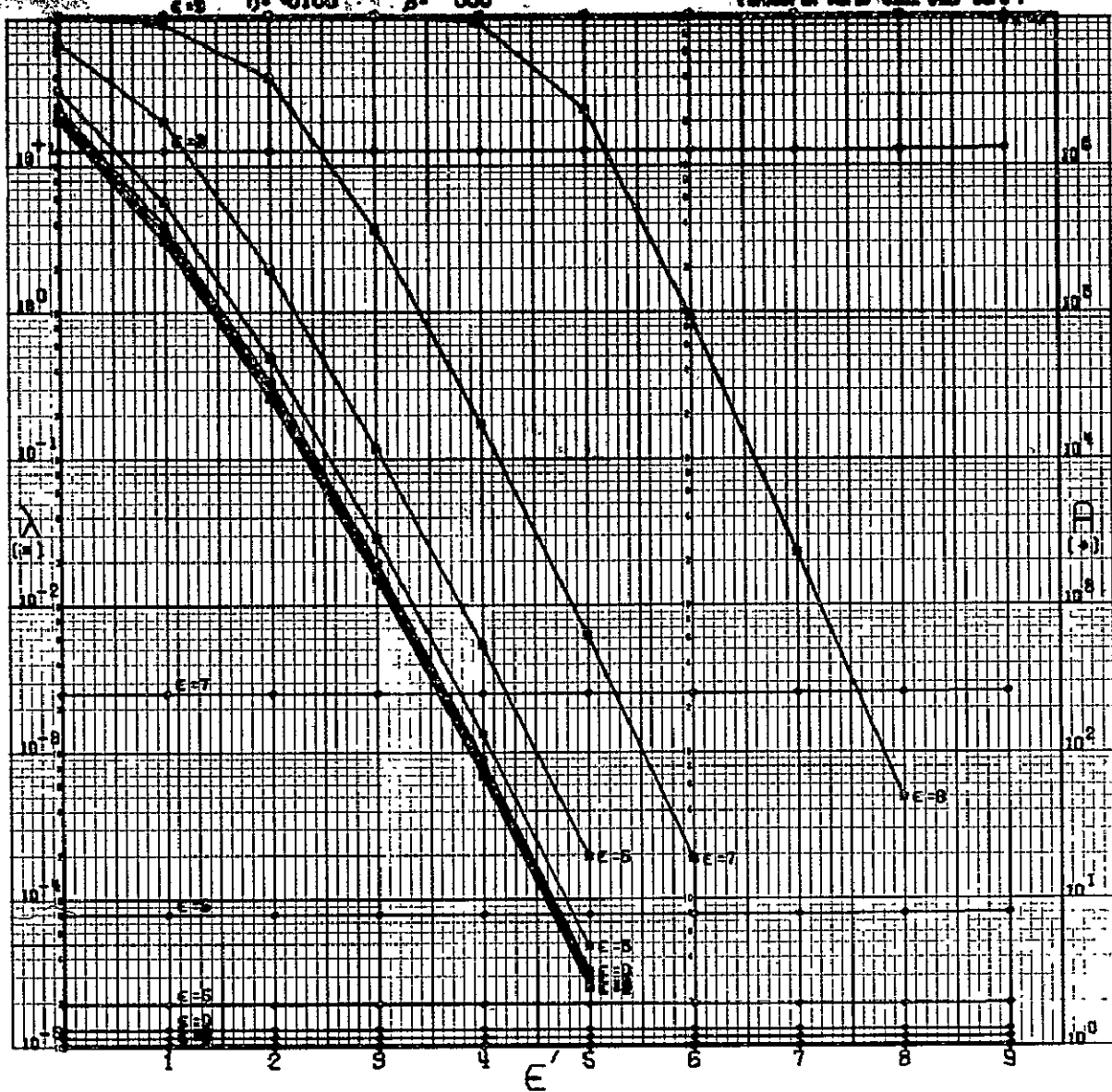
Abstract

№ 0100

NY 100

A= 500

1. NUMBER OF PARTS, CODE, ENG. DFGC 1



A-653

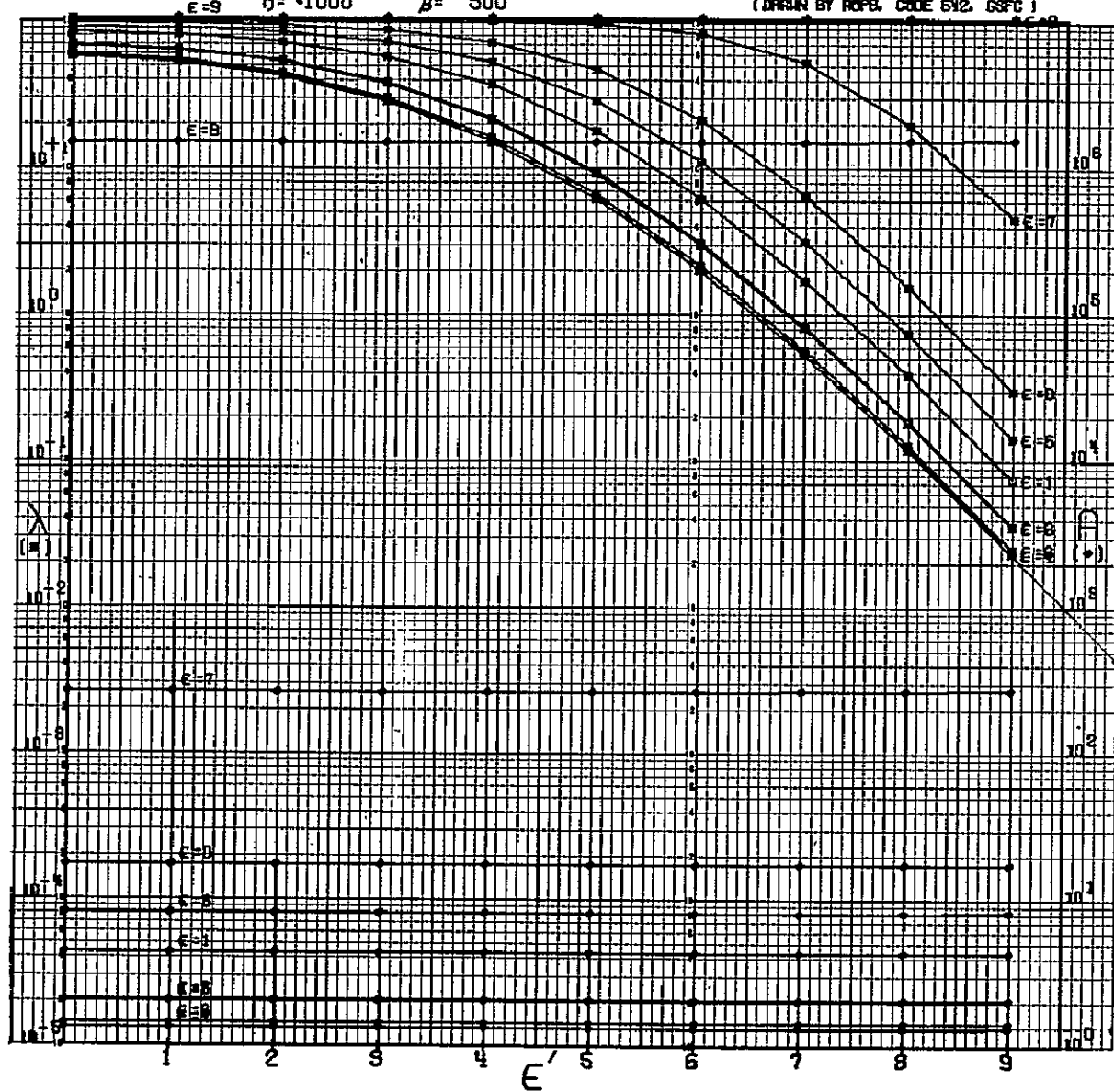
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



N=27

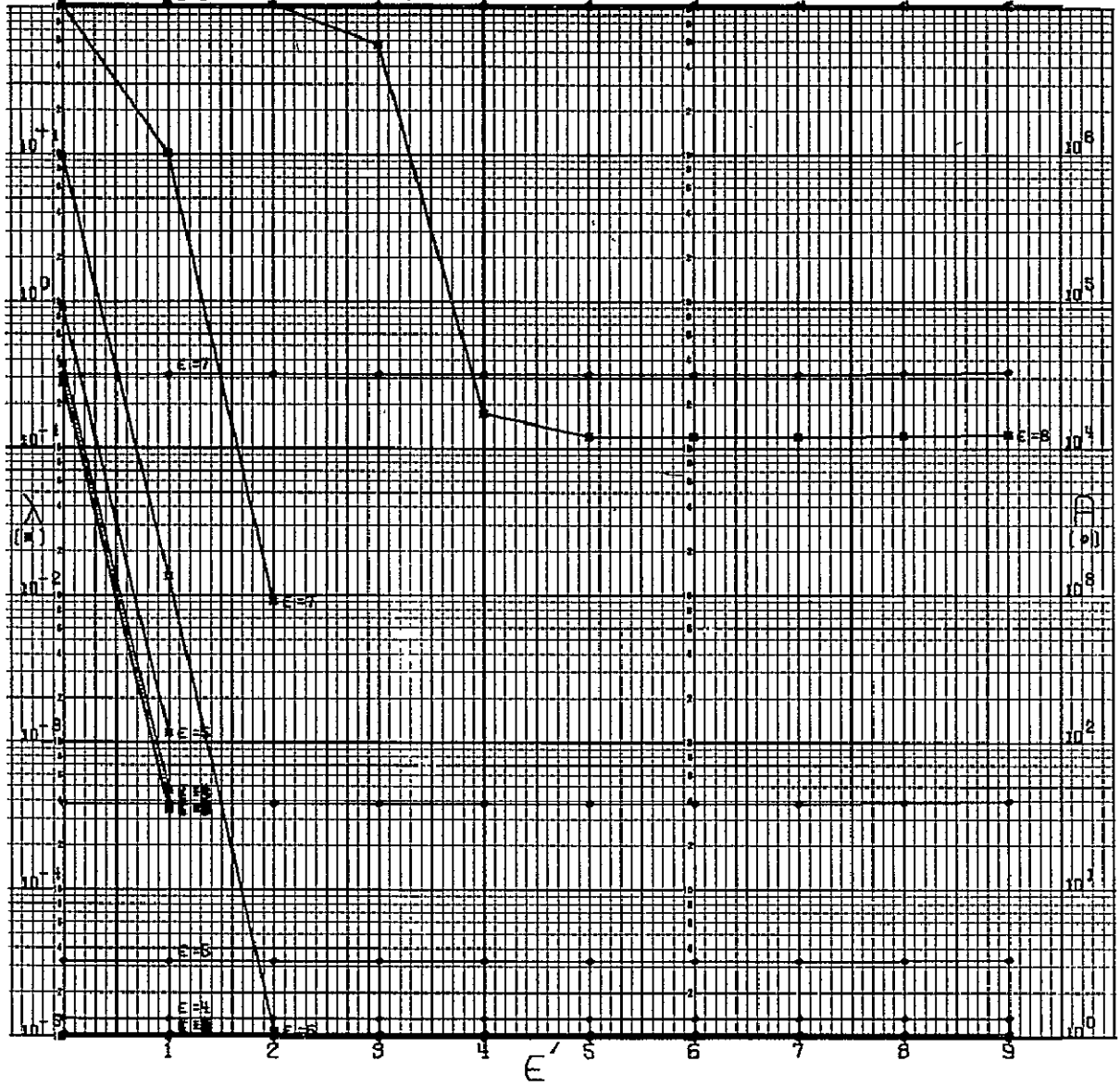
CODE 111110101101001100110000000
GSFC STANDARD

$\epsilon = 8$

$\eta = .0001$

$\beta = 1000$

(DRAWN BY AOPB. CODE 512. GSFC)



N=27

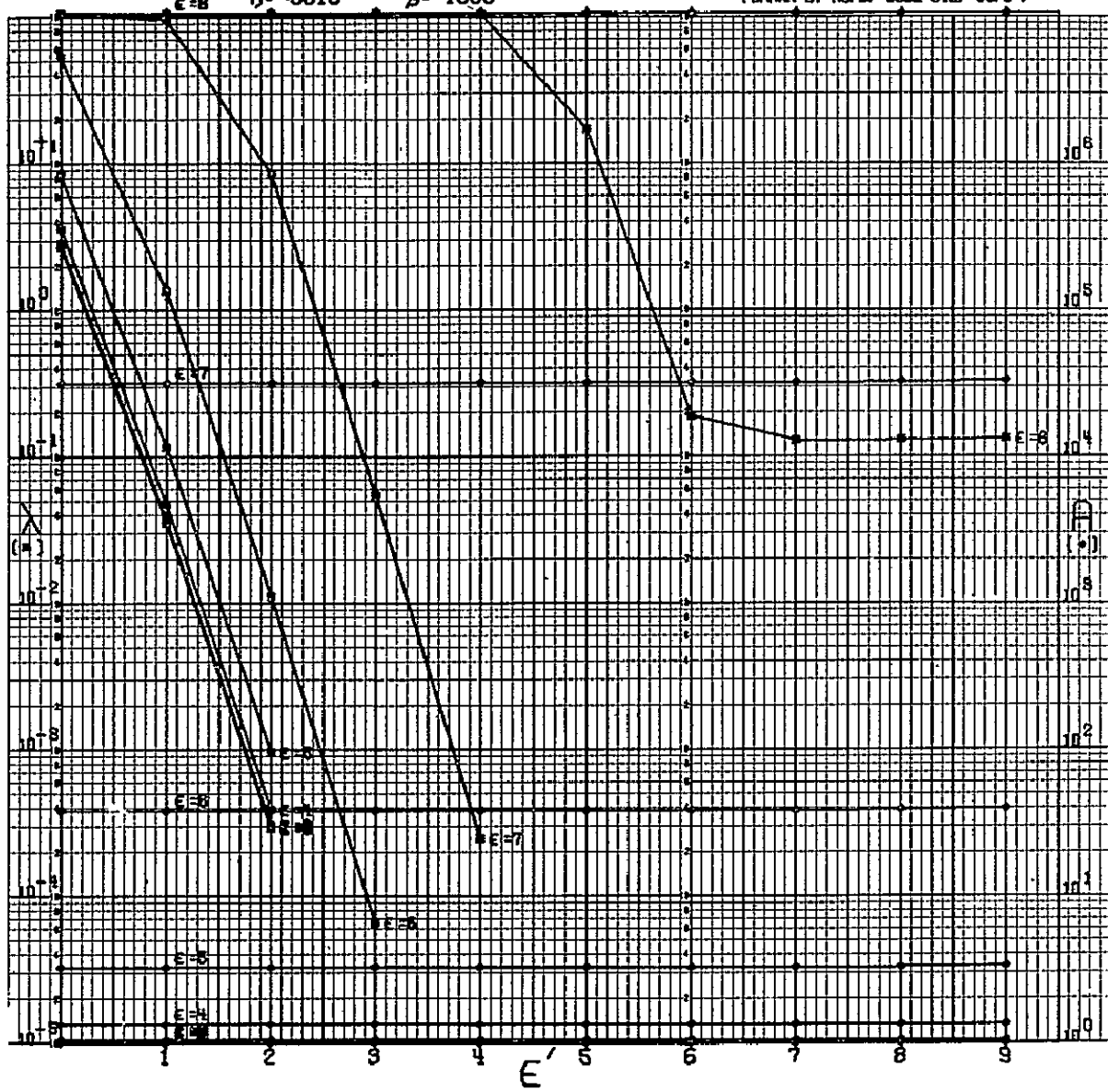
CODE 111110101101001100110000000

GSFC STANDARD

$\epsilon = 8$

$\beta = 1000$

(DRAWN BY ROPEL CODE 592, GSFC)



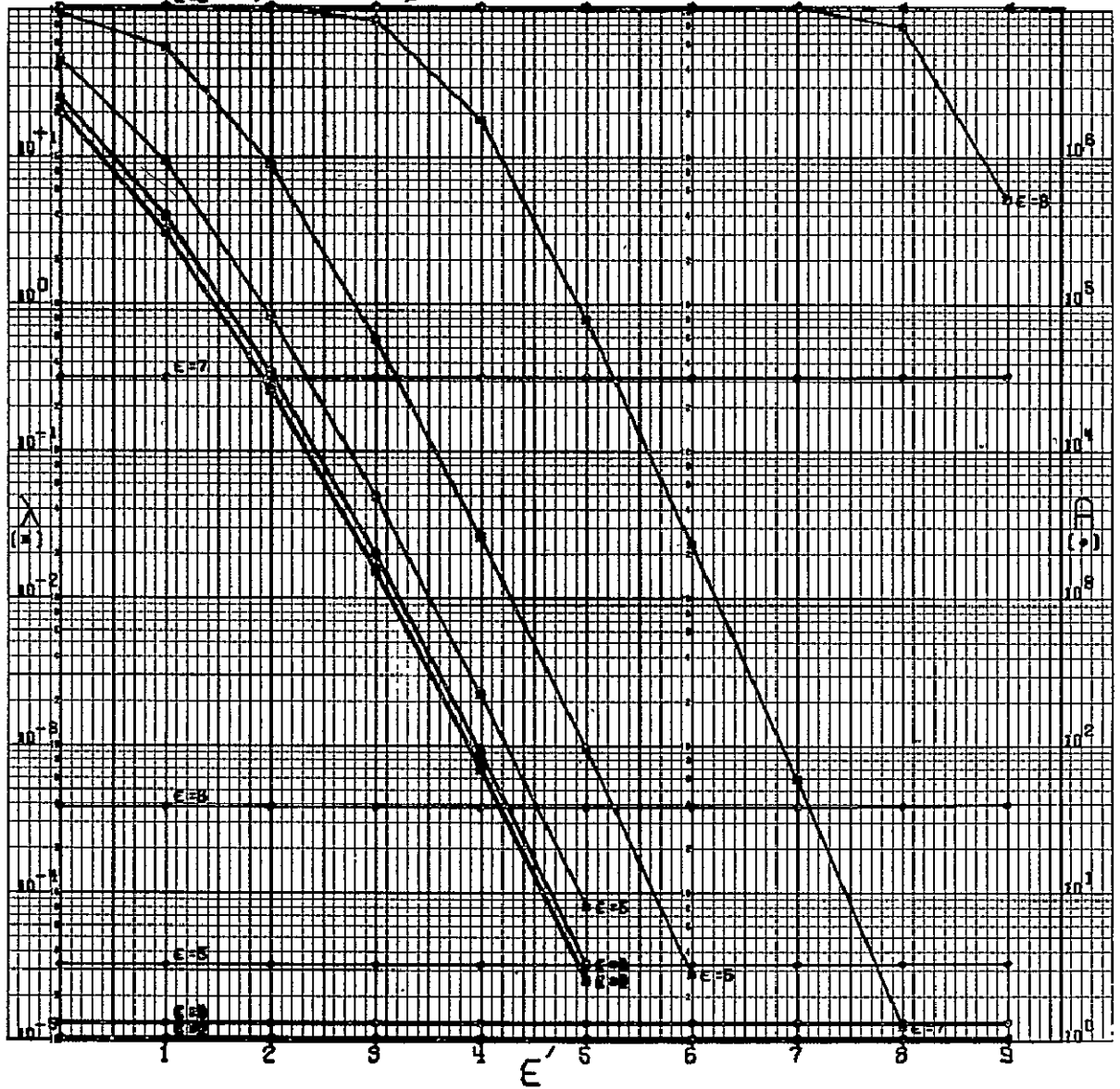
N=27

C80E 111110101101001108110000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPEL CODE 542, GSFC)



A-657

N=27

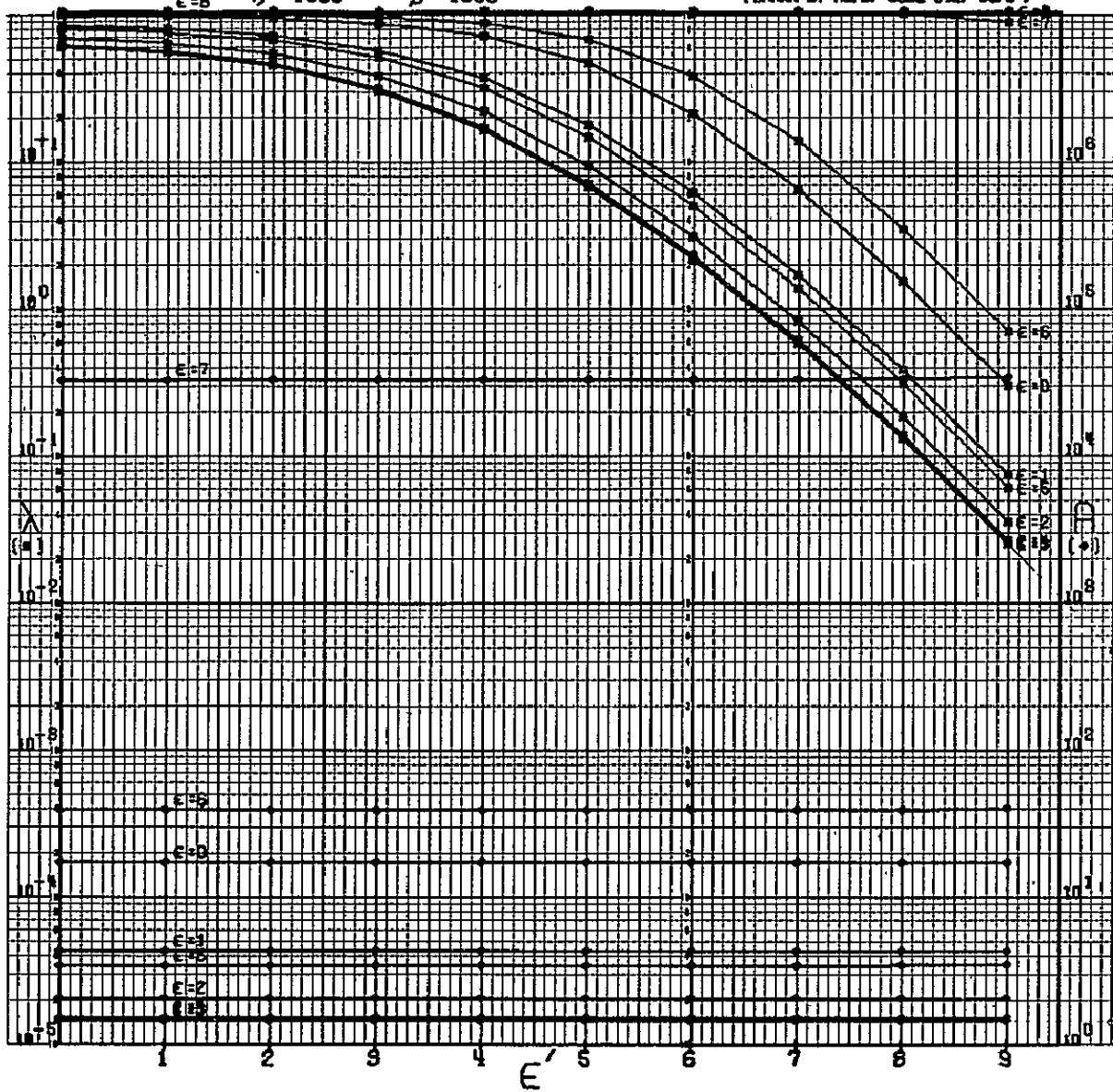
CODE 111110101101001100110000000

GSFC STANORFD

$\eta = 1000$

$\beta = 1000$

(ORIGIN BY ROPB. CODE 542. GSFC)



A-658

N=27

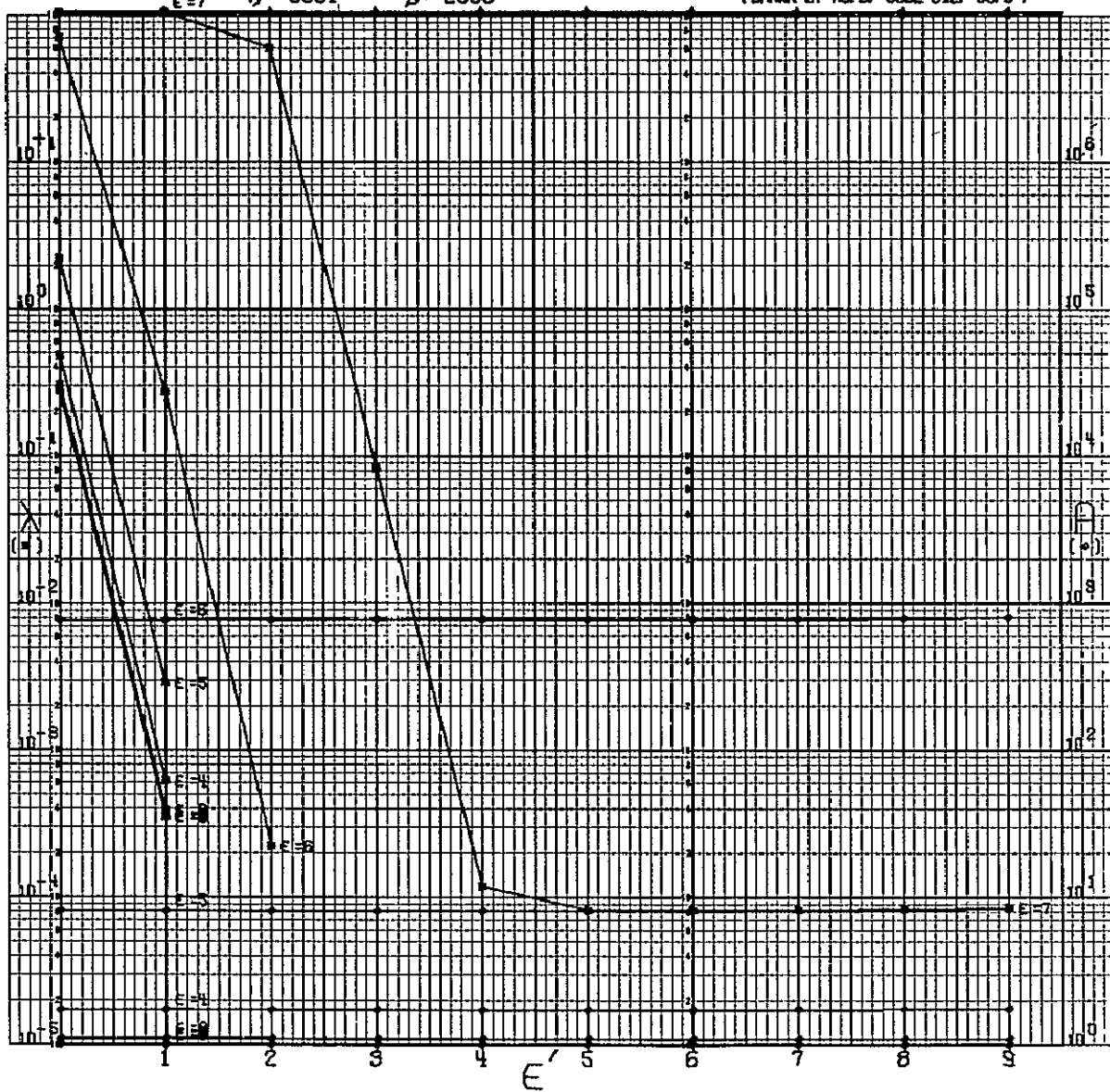
CODE 111110101101001100110000000

GSFC STANDARD

$\epsilon = 7$ $\eta = -0001$

$\beta = 2000$

(DRAWN BY ROPB CODE 542, GSFC)



A-659

N = 27

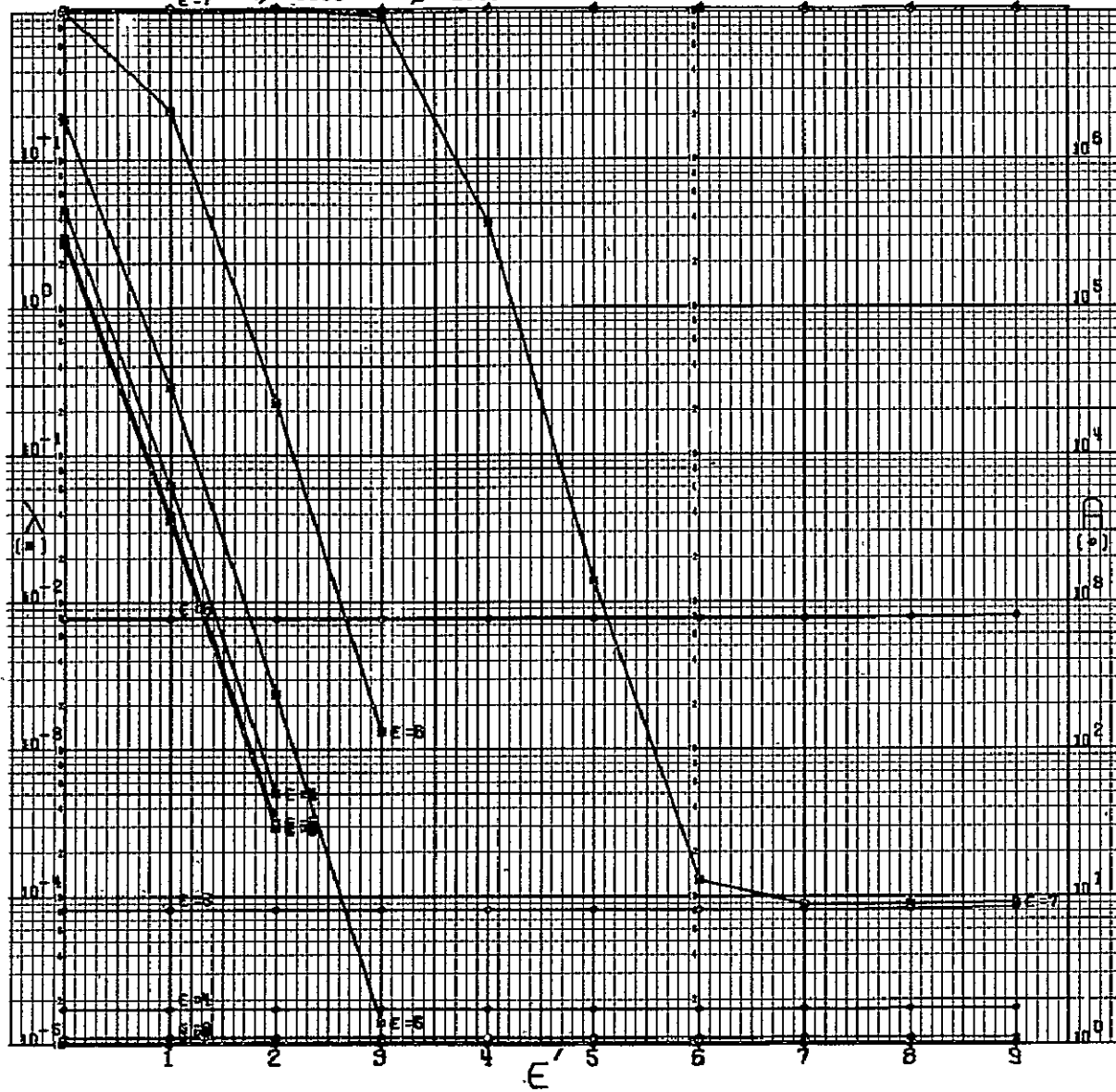
CODE 111110101101001100110000000

GSFC STANDARD

$\eta = +0010$

$\beta = 2000$

(OBTAIN BY AOPB, CODE 542, GSFC)



A-660

N=27

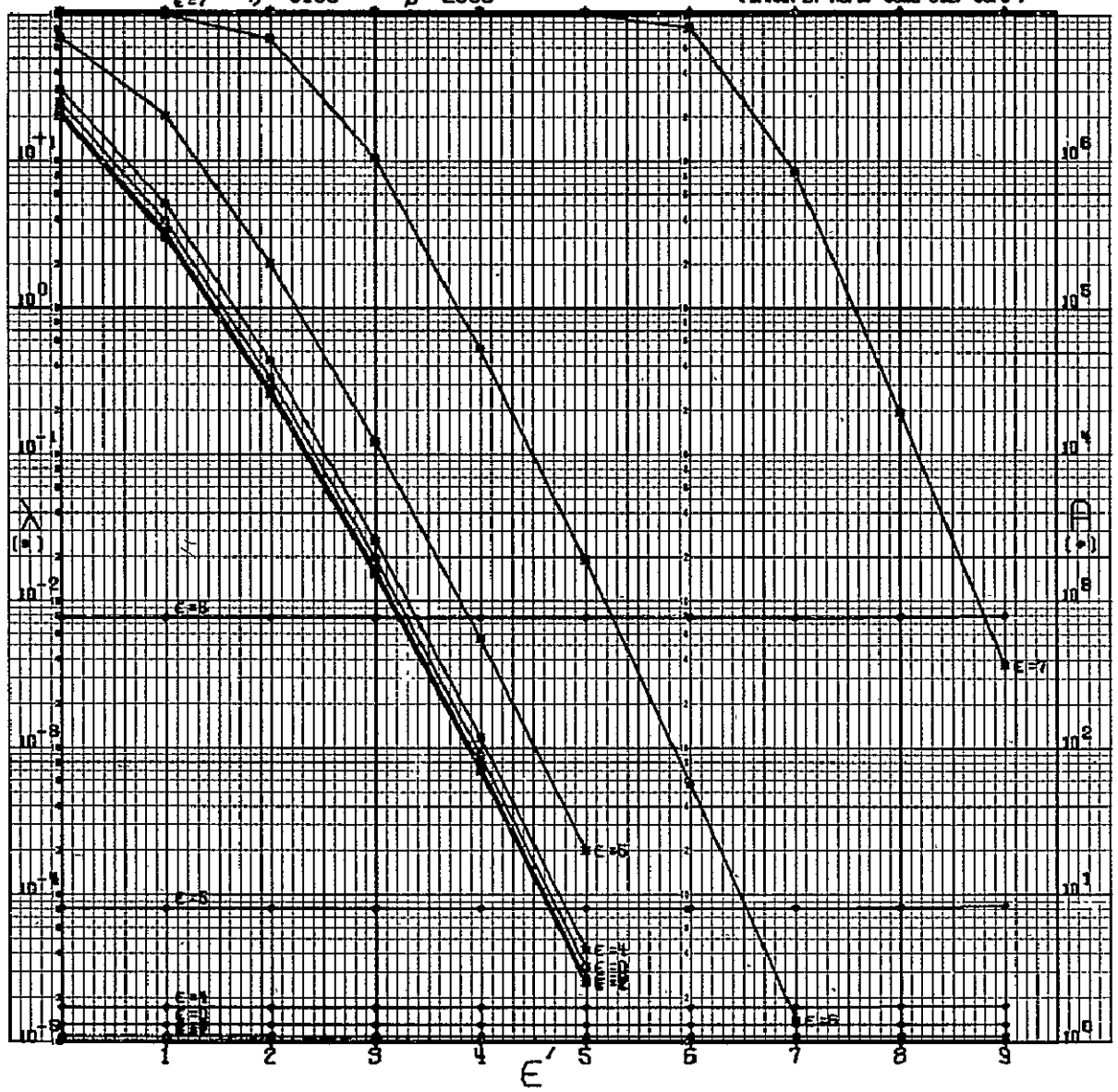
CODE 111110101101001100110000000

GSFC STANDARD

$\epsilon = 7$ $\eta = -0.100$

$\beta = 2000$

(DRAWN BY ROPS, CODE 512, GSFC)



A-661

N=27

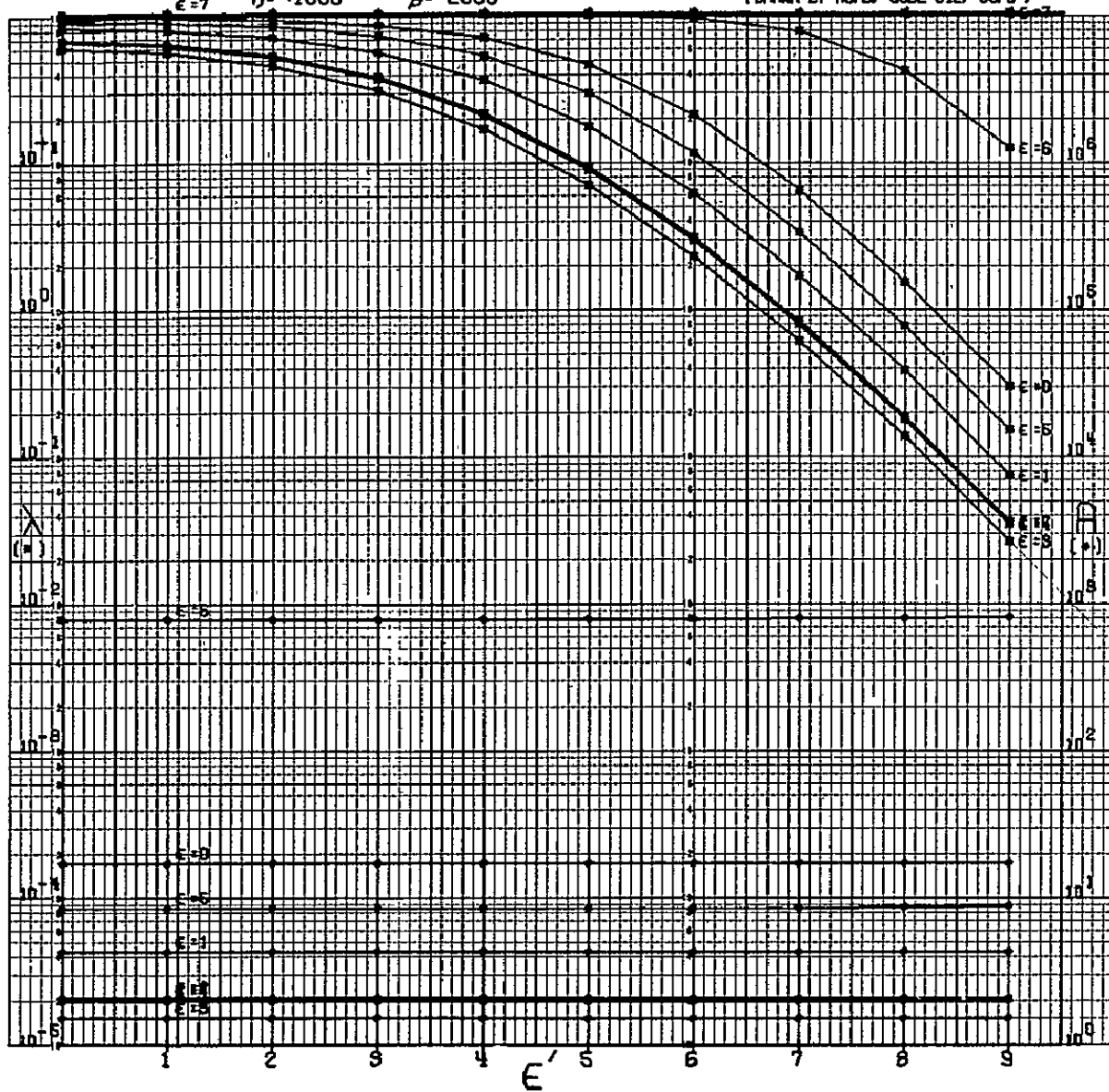
C80E 111110101101001100110000000

GSFC STANDARD

$\epsilon = 7$ $b = 1000$

$\beta = 2000$

(DRAWN BY RCPB, CODE 542, GSFC)



A-662

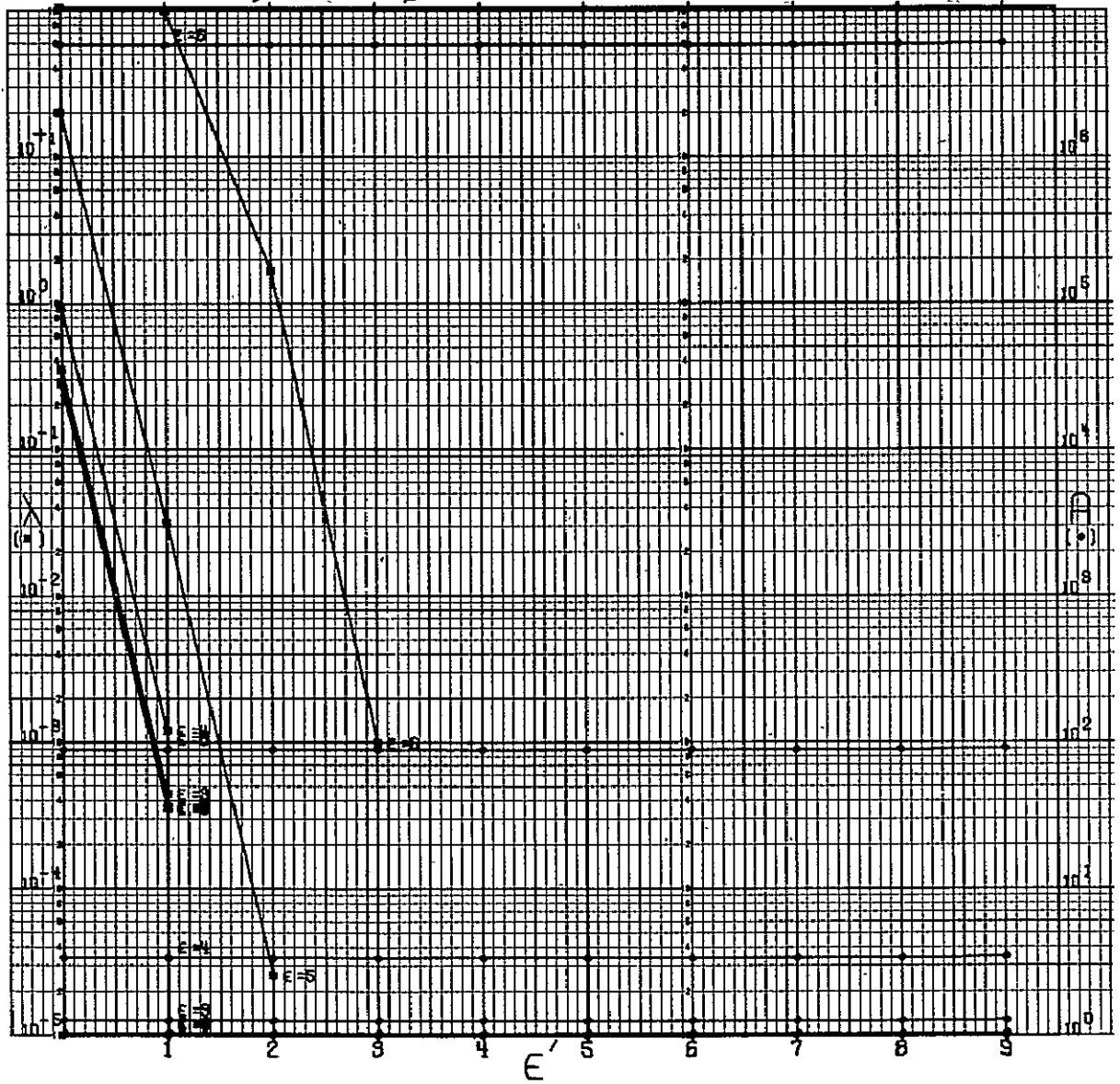
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 0.001$

$\beta = 5000$

(DRAWN BY ROPS, CODE 542, GSFC)



A-663

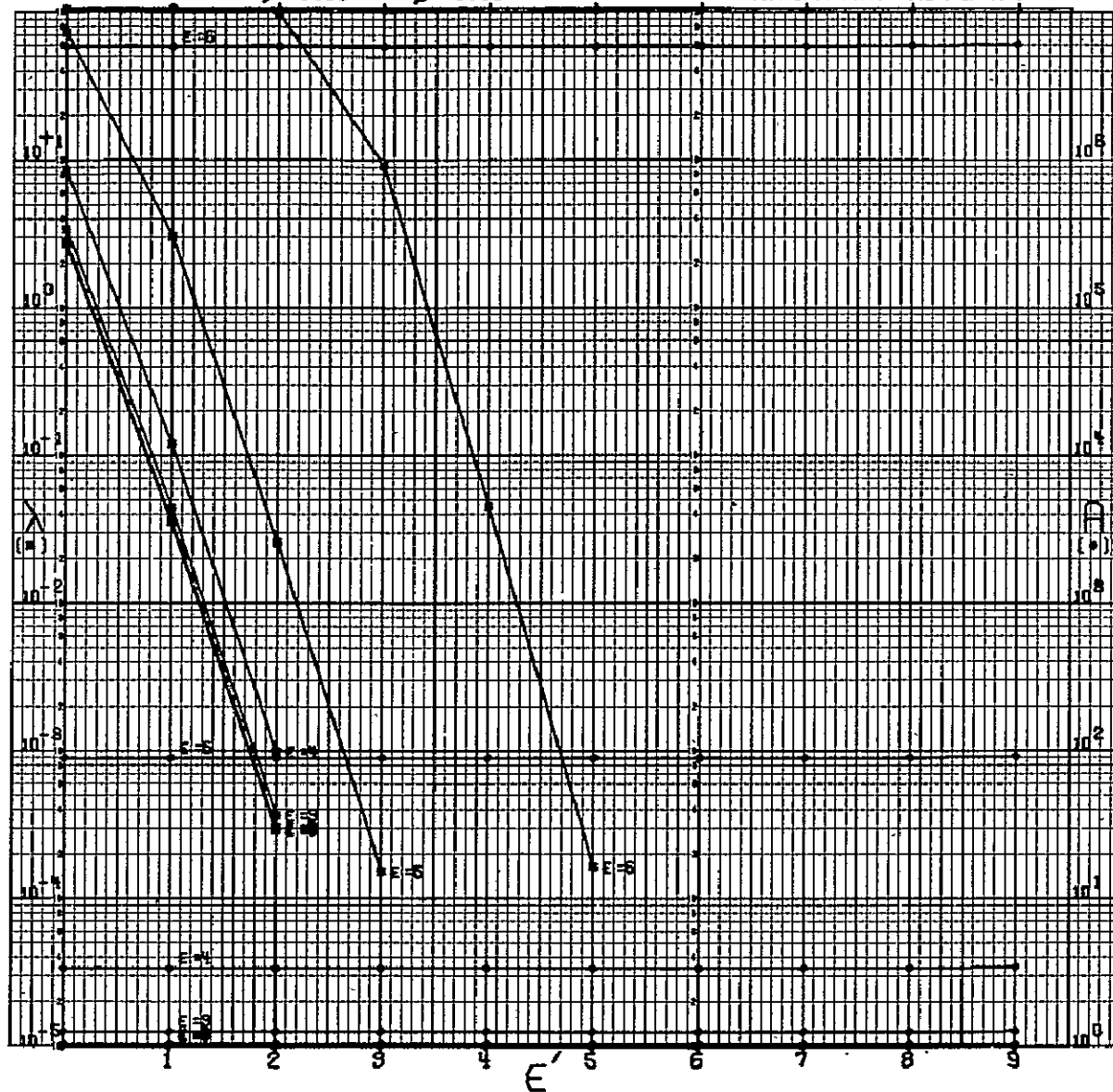
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = -0010$

$\beta = 5000$

(DRAWN BY ROPB, CODE 512, GSFC)



A-664

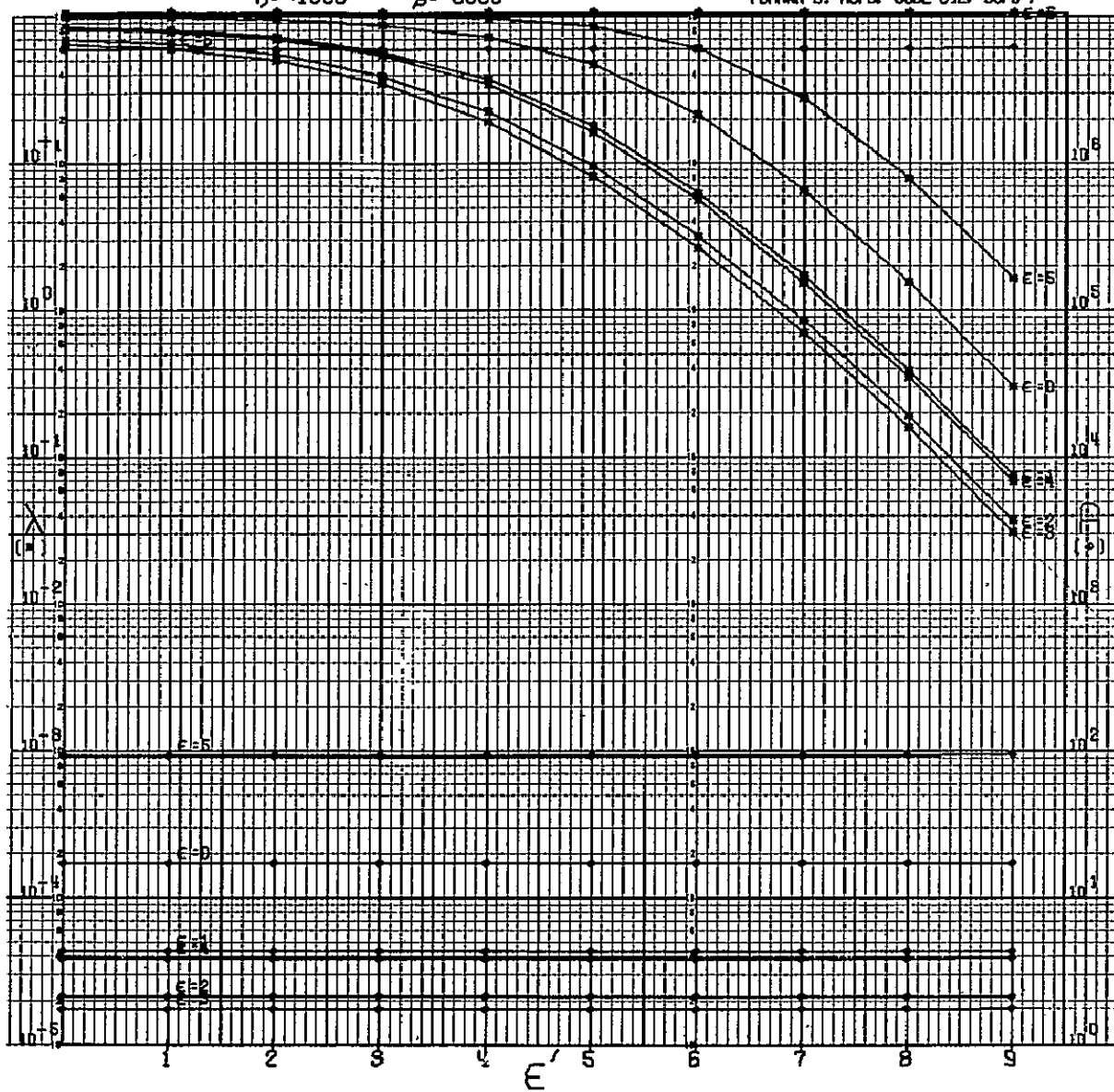
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 1000$

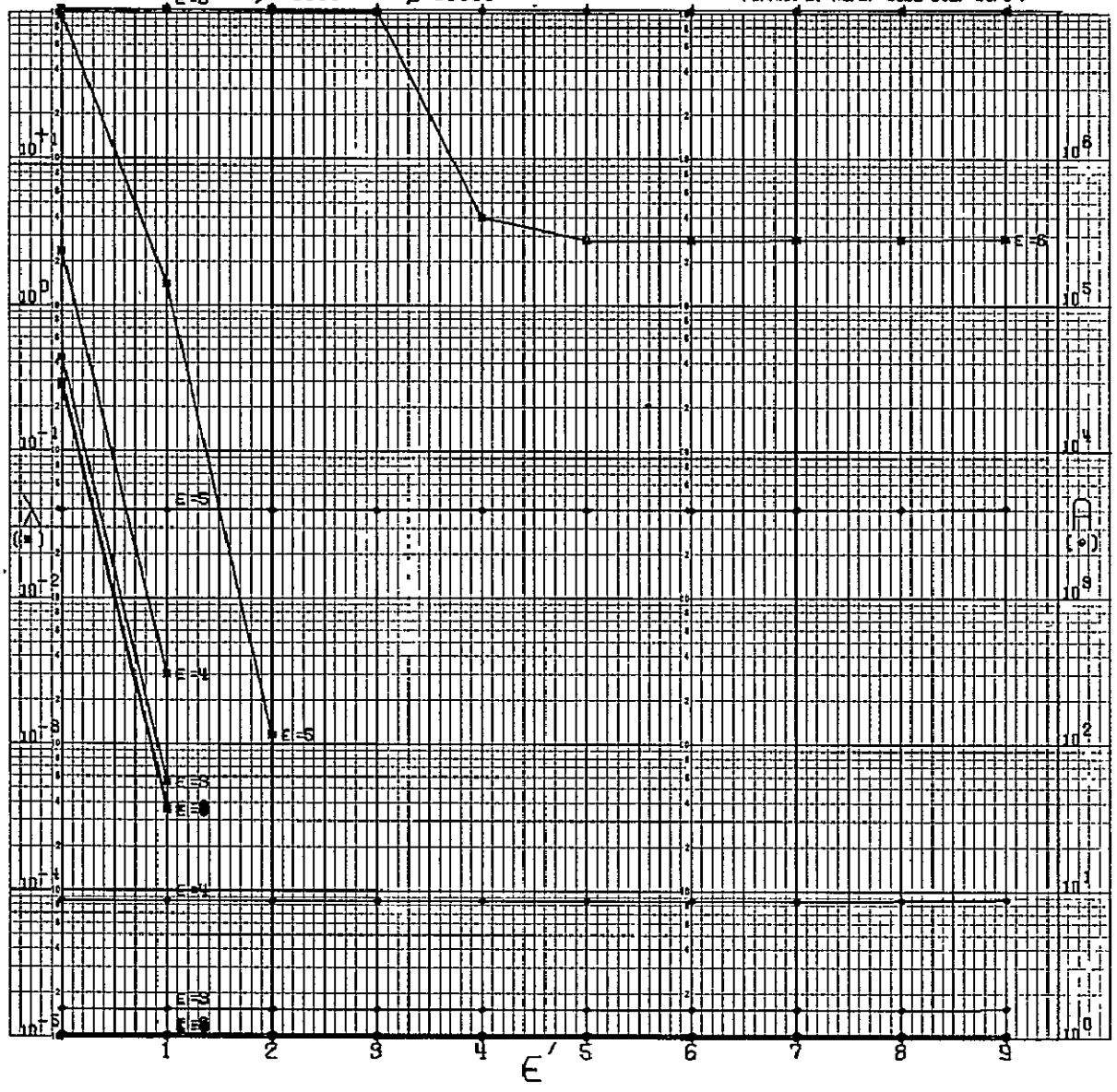
$\beta = 5000$

(DRAWN BY ROPB. CODE 542. GSFC)



A-666

N=27 CODE 11110101101001100110000000
 GSFC STANDARD $\eta = +0001$ $\beta = 10000$ (DRAWN BY ROPE, CODE 542, GSFC)



N = 27

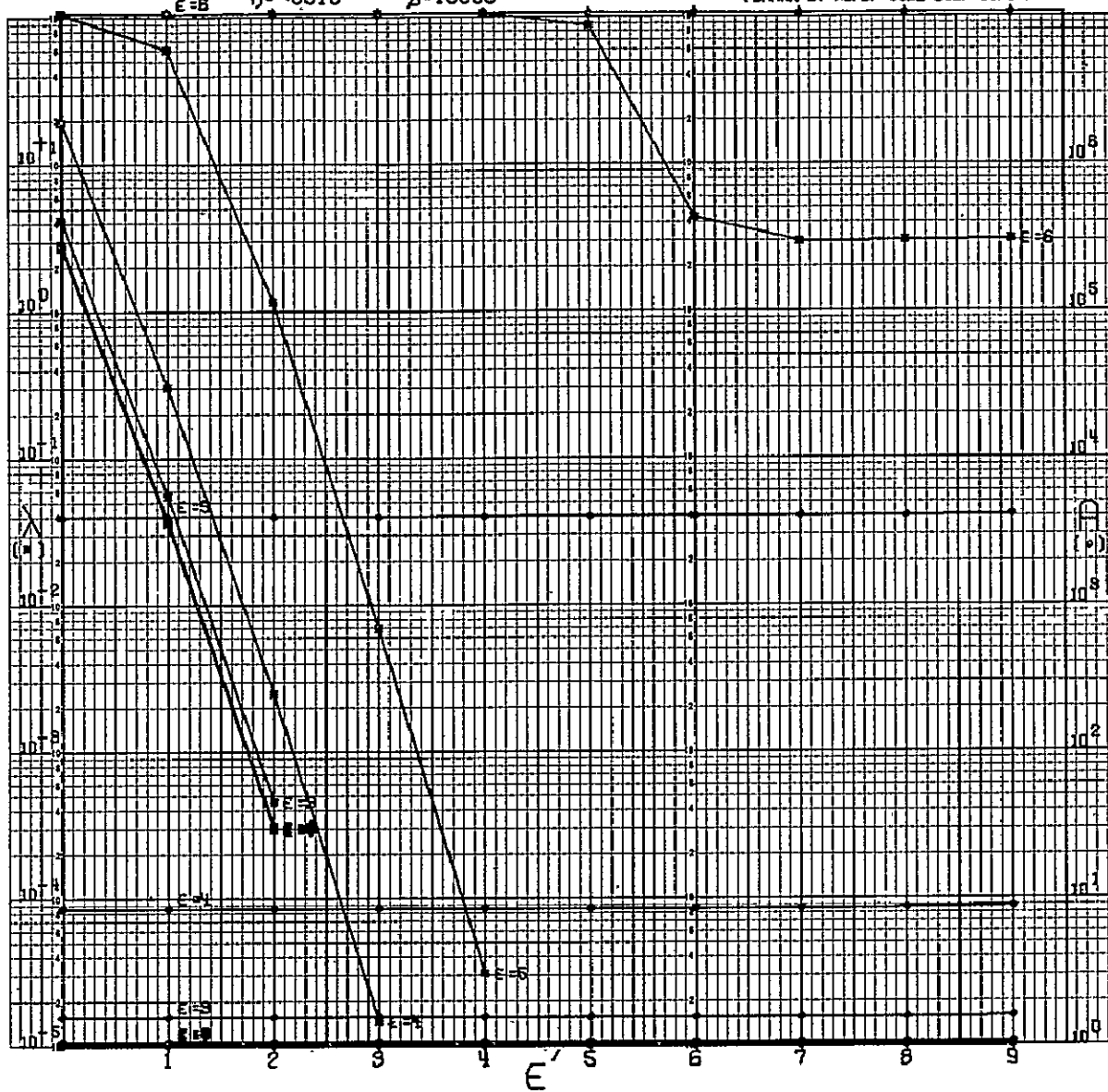
CODE 111310101101002100110000000

GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-668

N=27

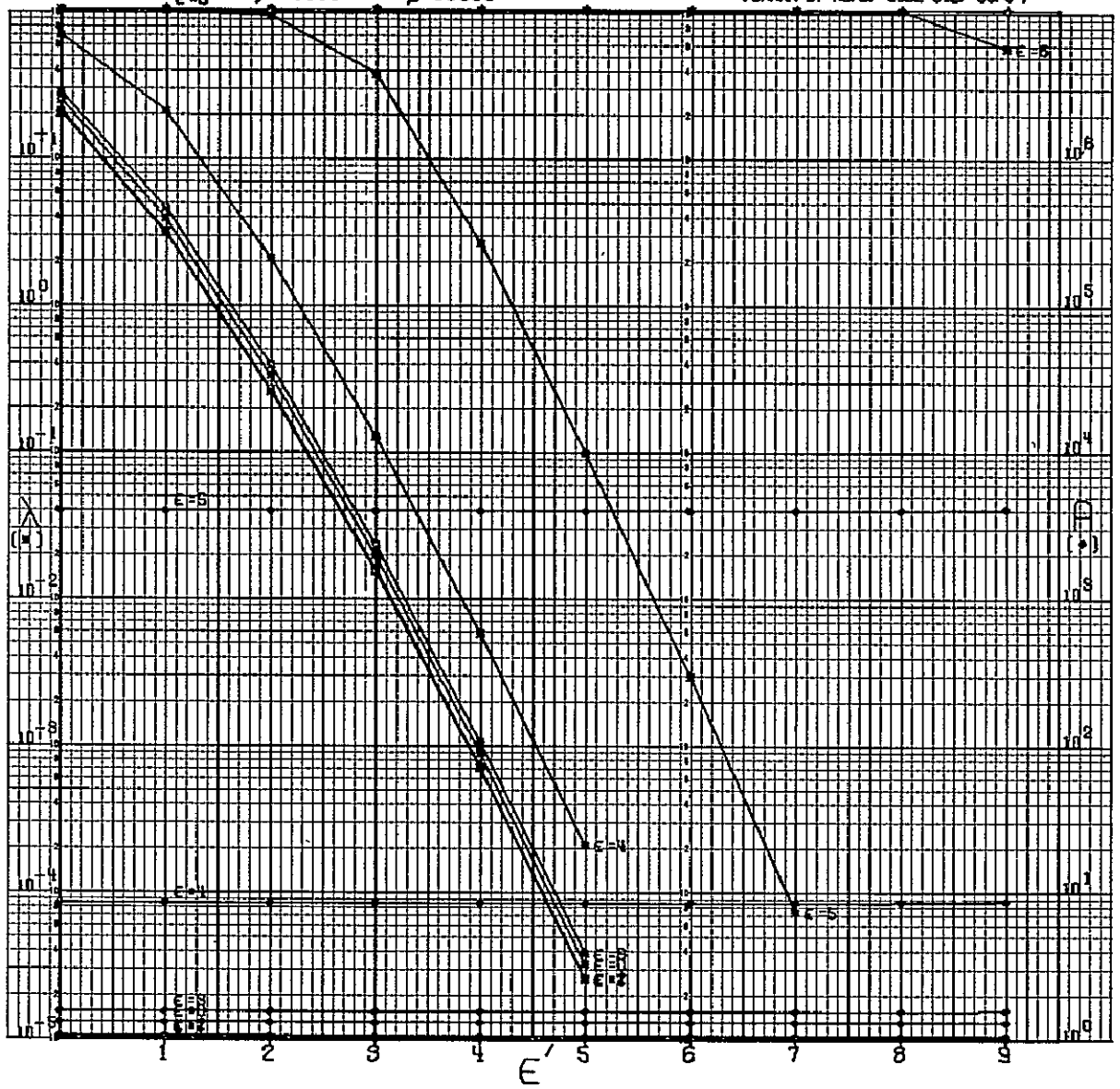
CODE 111310101101003100110000000

GSFC STANDARD

$\epsilon = 6$ $\eta = -0100$

$\beta = 10000$

(DRAWN BY ADP6, CODE 542, GSFC)



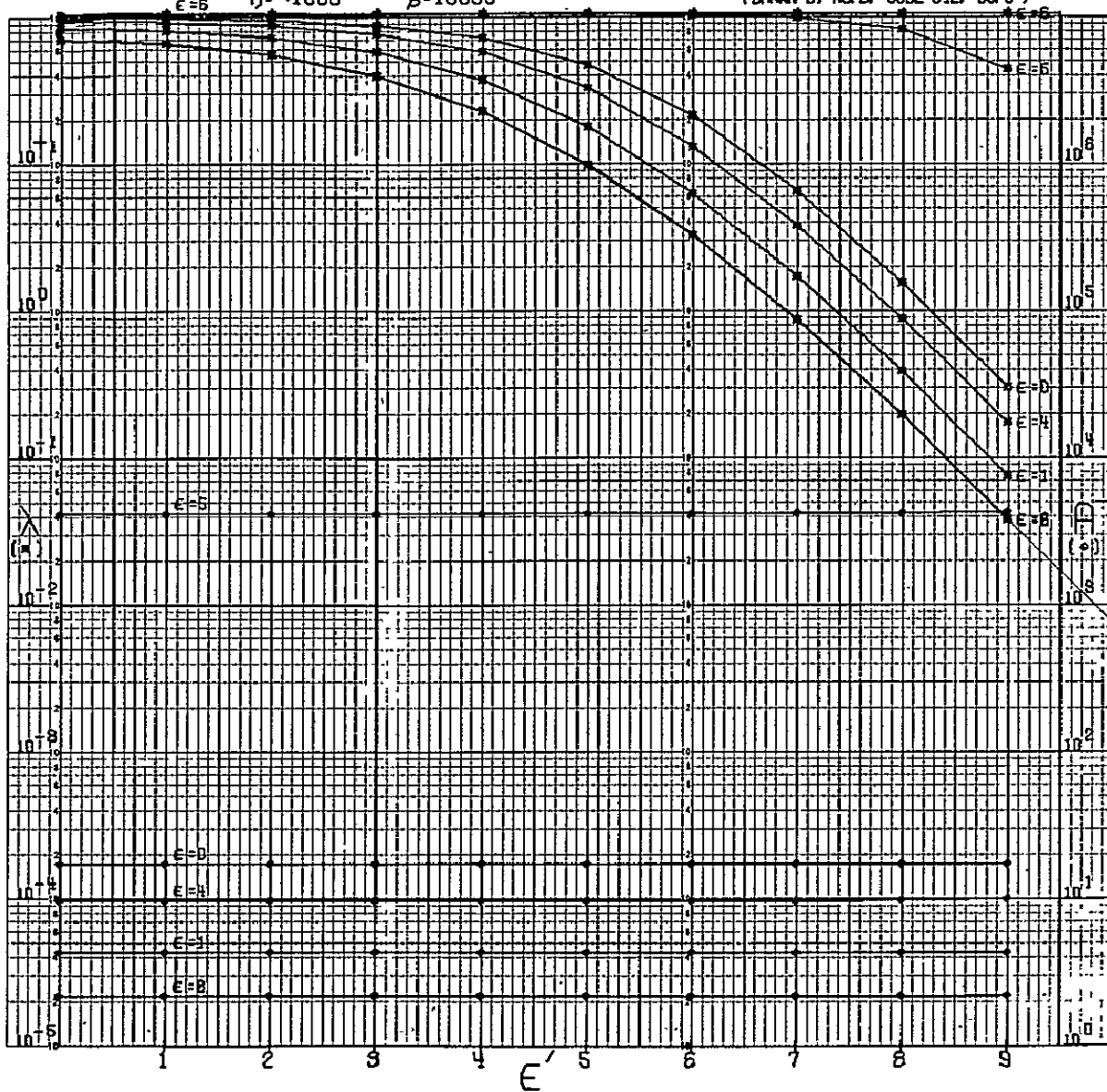
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



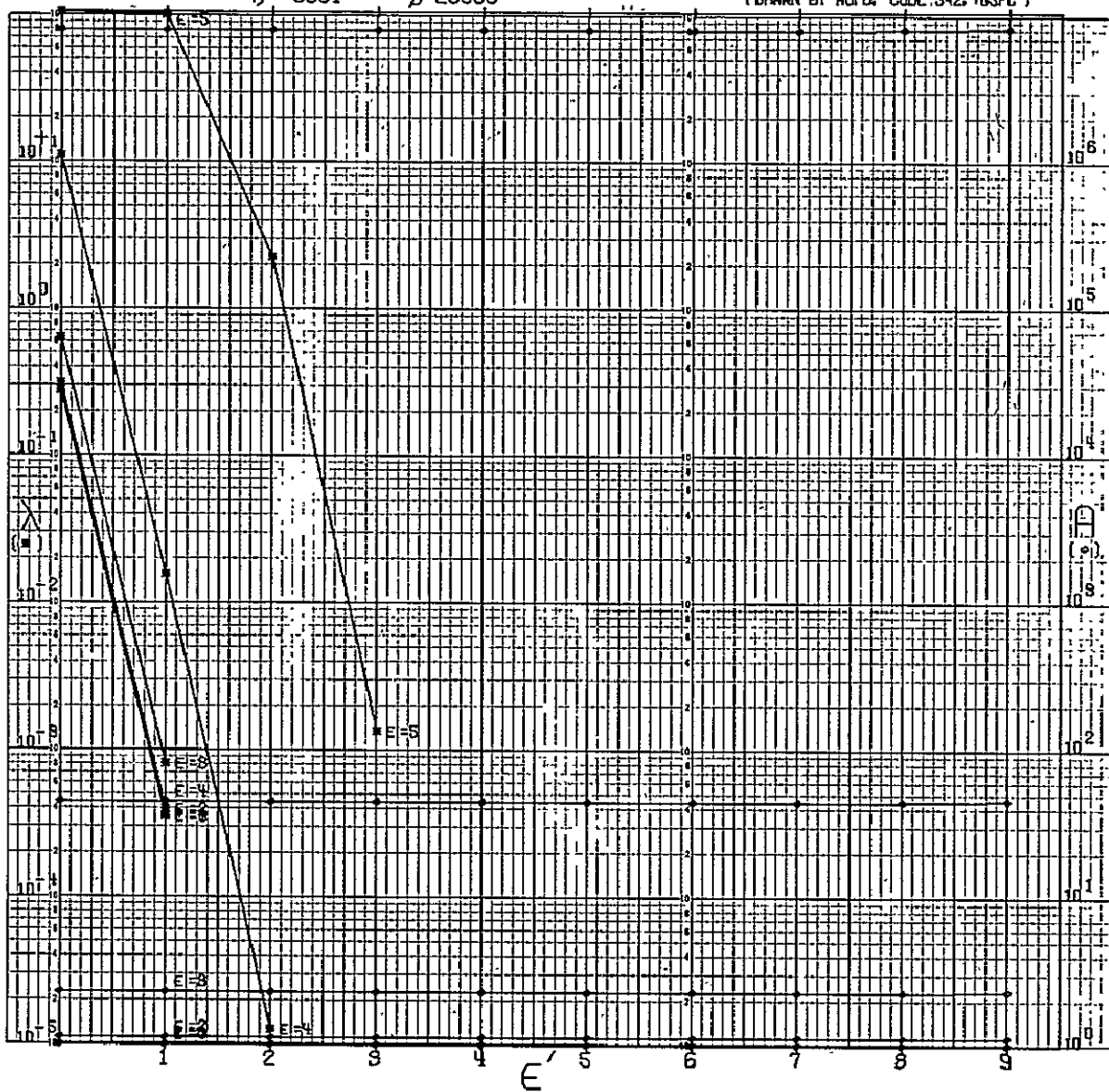
A-670

X

CODE 11110101101001100110000000
GSFC STANDARD

 $\beta = 20000$

(DRAWN BY RRPB, CODE: 542, GSFC)



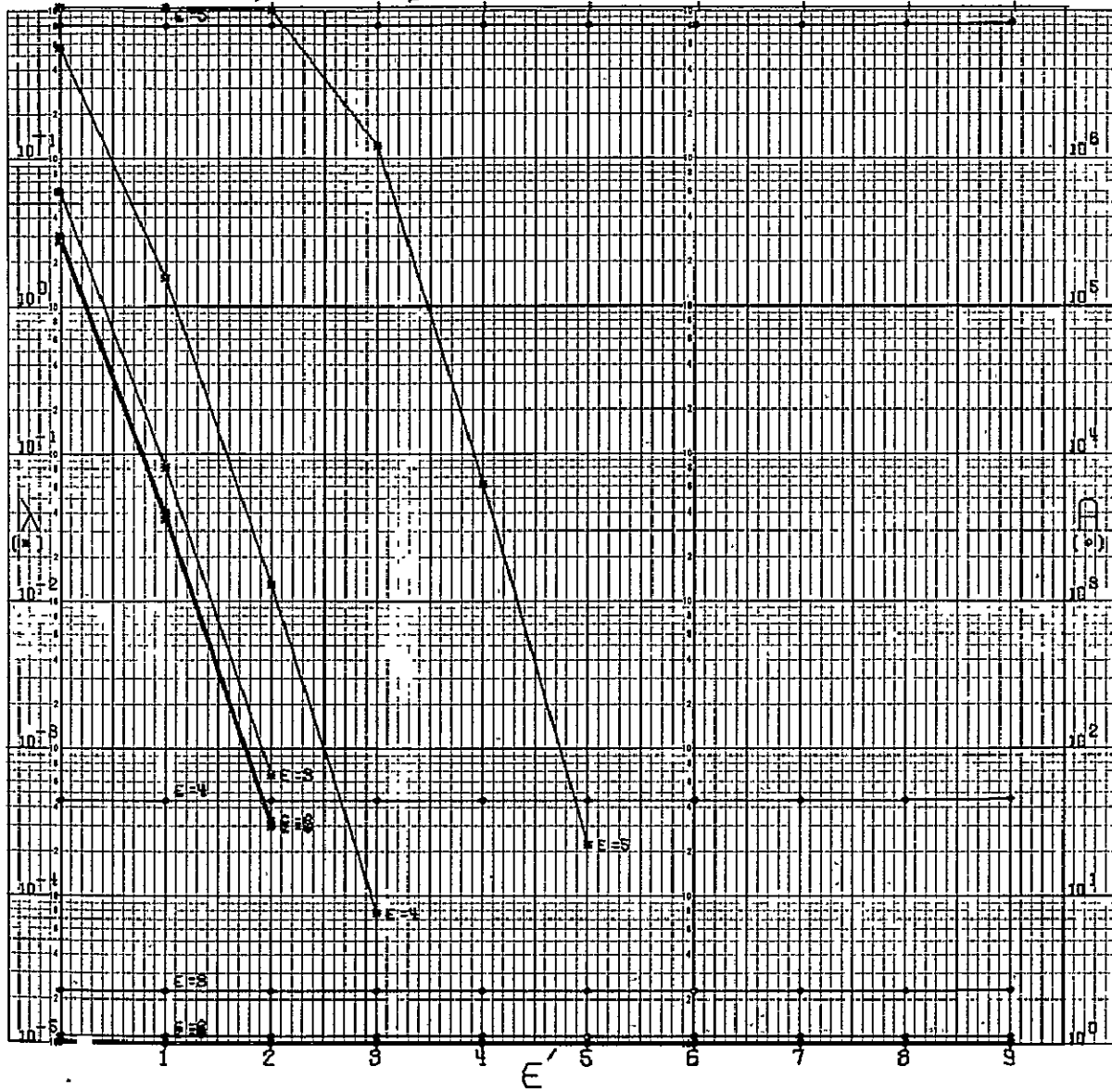
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 20000$

(DRAWN BY ROFB, CODE 542, GSFC)



A-672

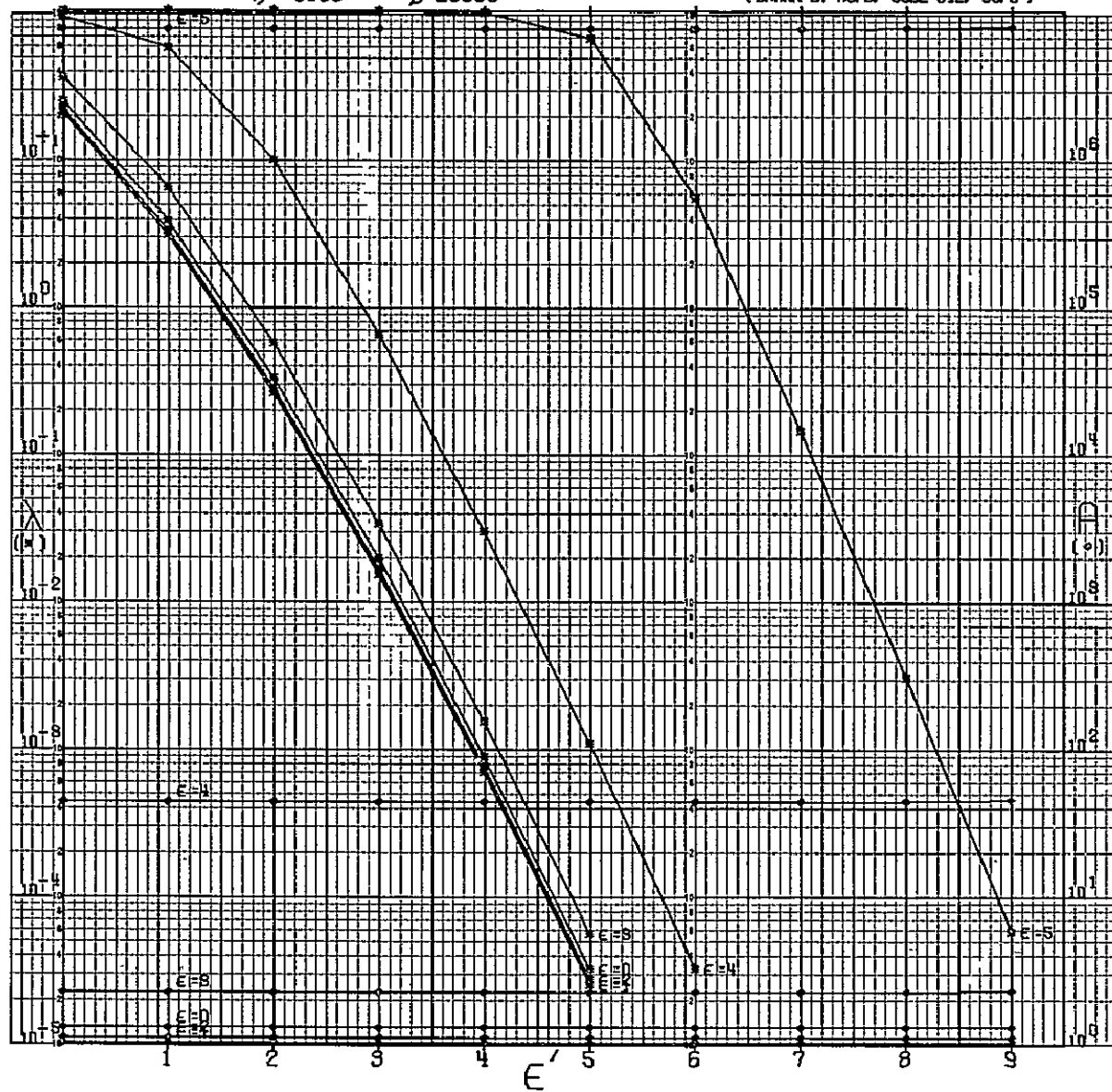
N=27

CODE 11111010101001100110000000
GSFC STANDARD

$h = 0.100$

$\beta = 20000$

(DRAWN BY ROPEL CODE 542, GSFC)



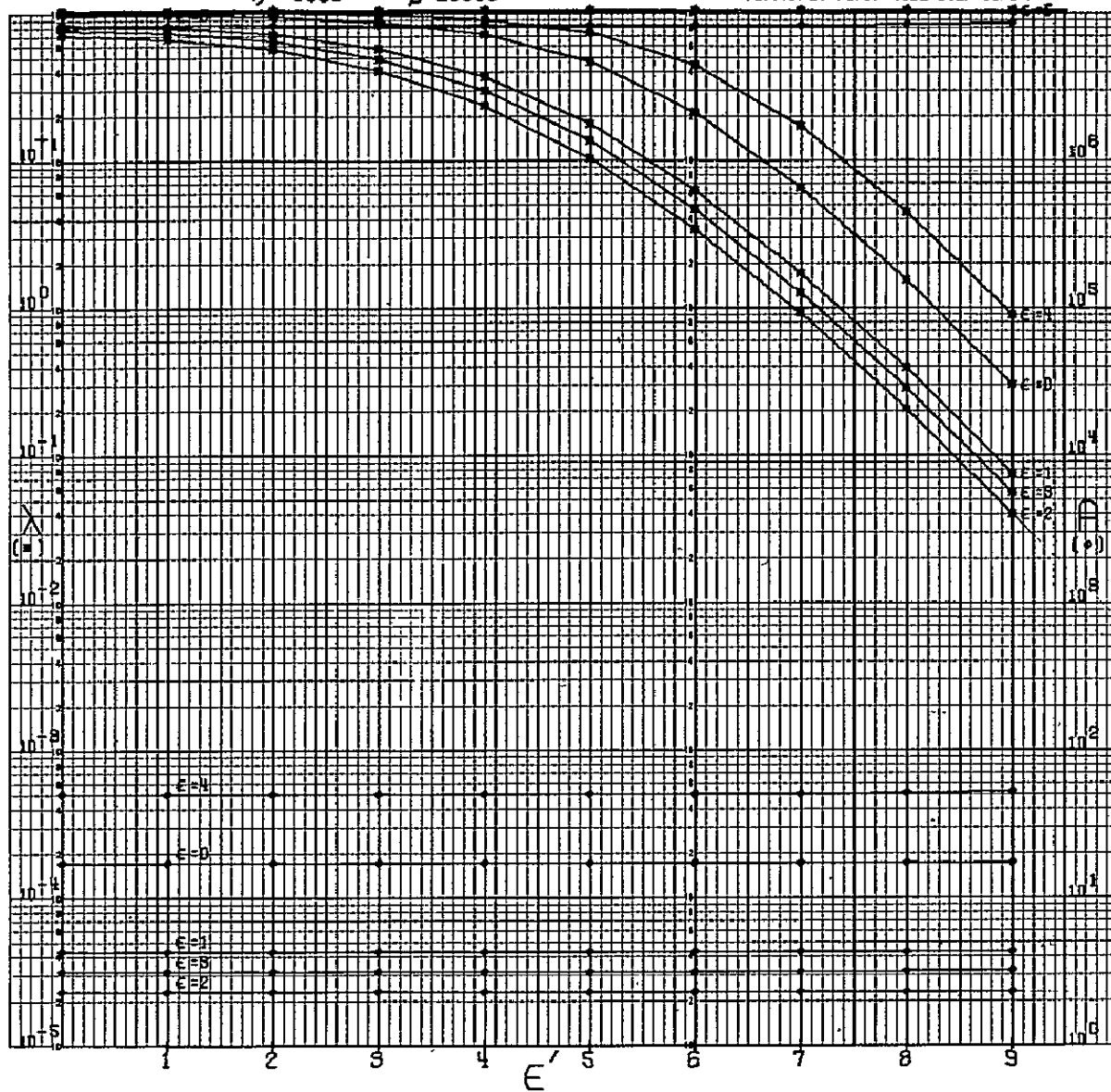
N=27

CODE 111110101101001100110000000
GSFC STANDARD

$\eta = +1000$

$\beta = 20000$

(DRAWN BY ROPEL CODE 542 GSFC)



$$N = 28$$

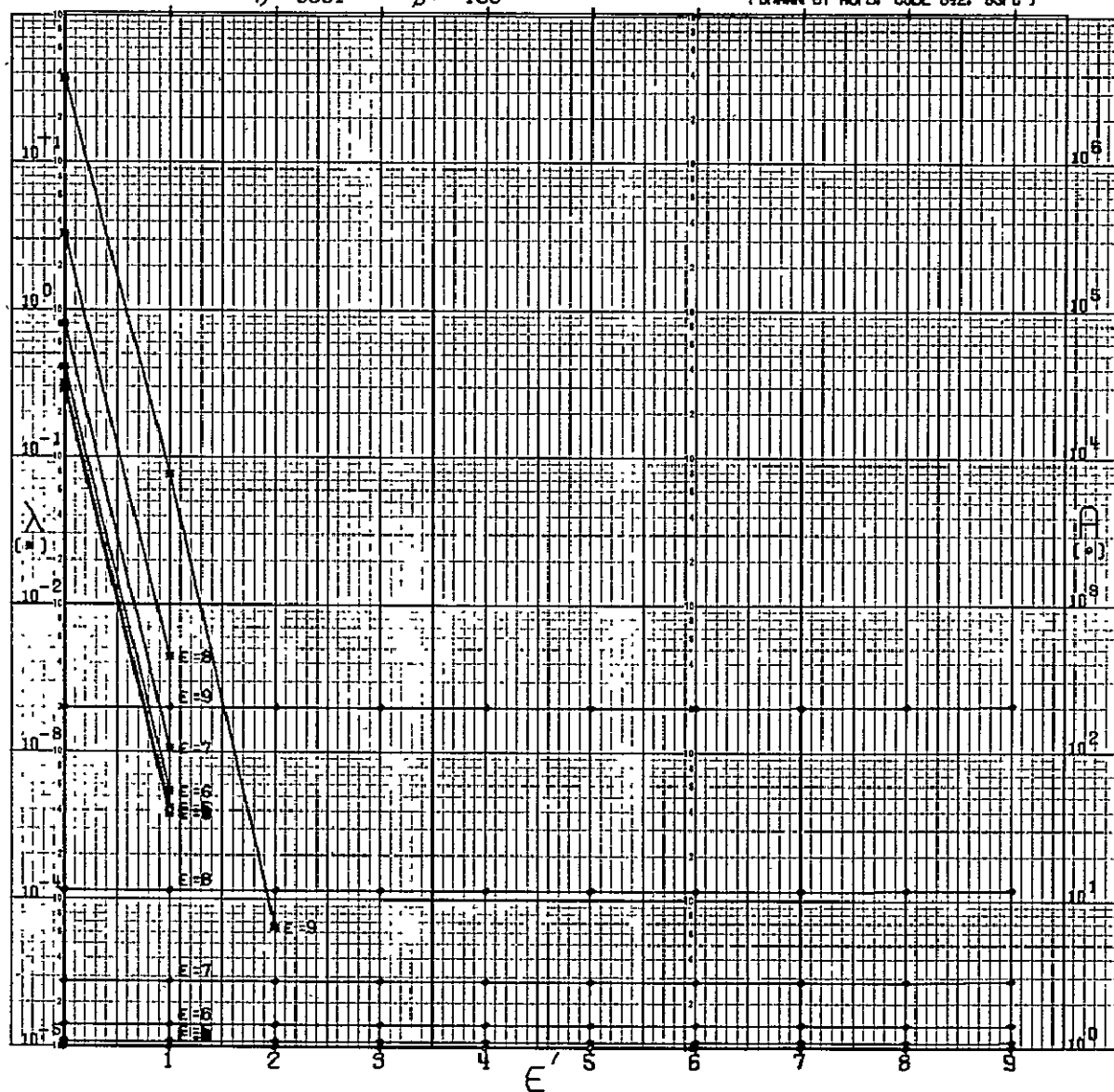
N=28

CODE 111101011100101100110000000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 100$

(DRAWN BY ROPEL CODE 542, GSFC)



A-675

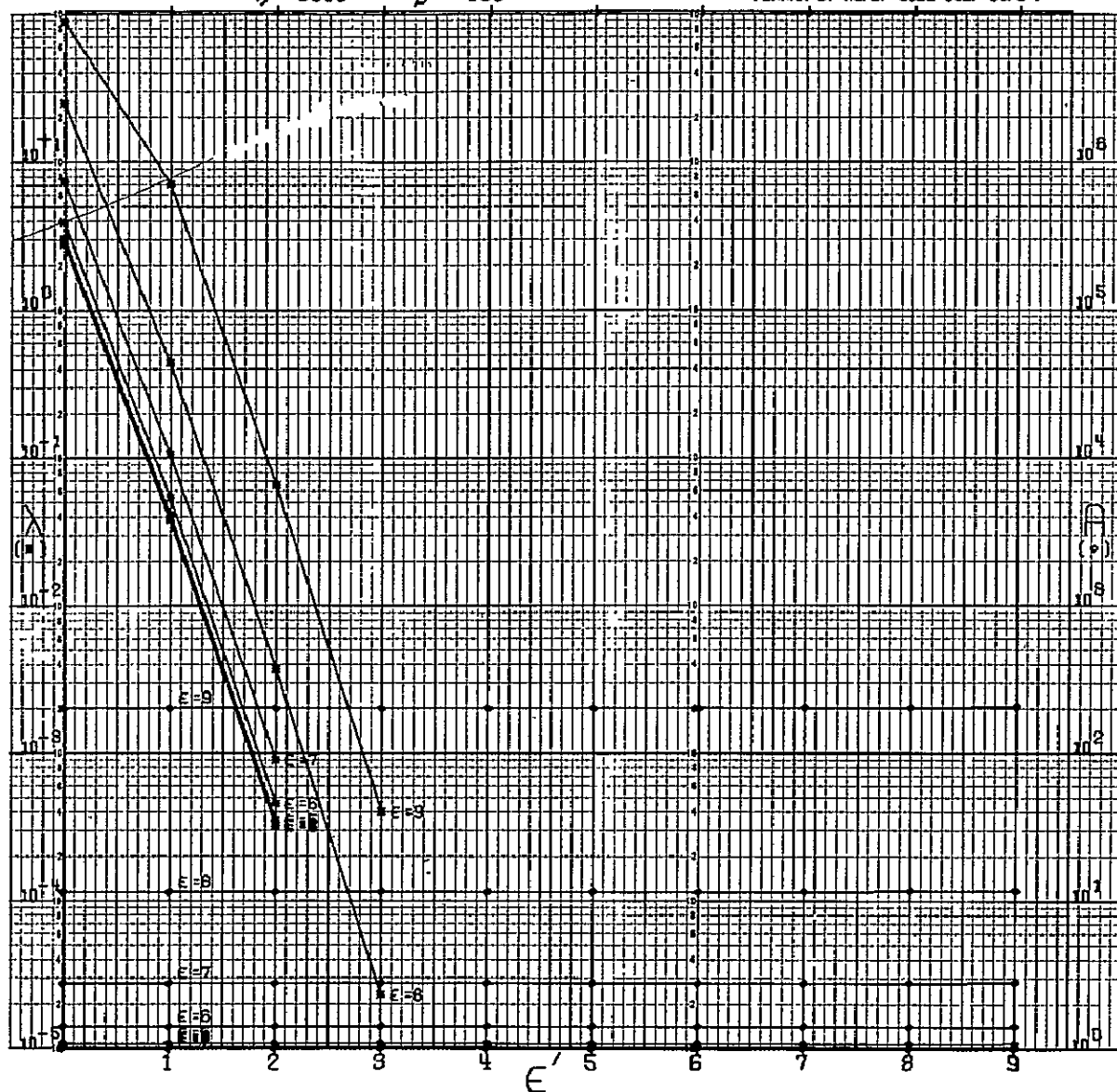
N=28

CODE 1111010111100101103110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ROPB, CODE 542, GSFC)



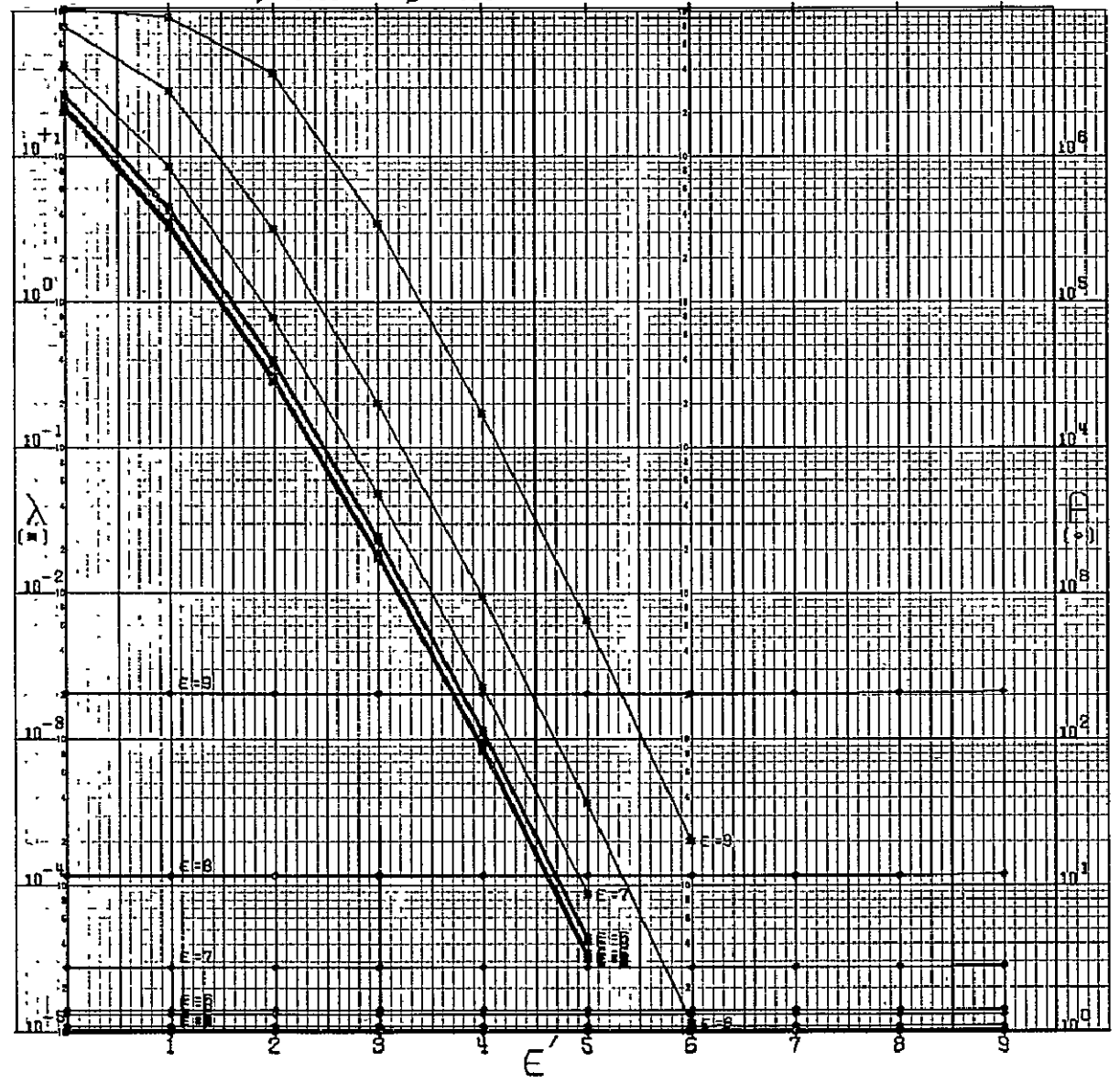
N = 28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

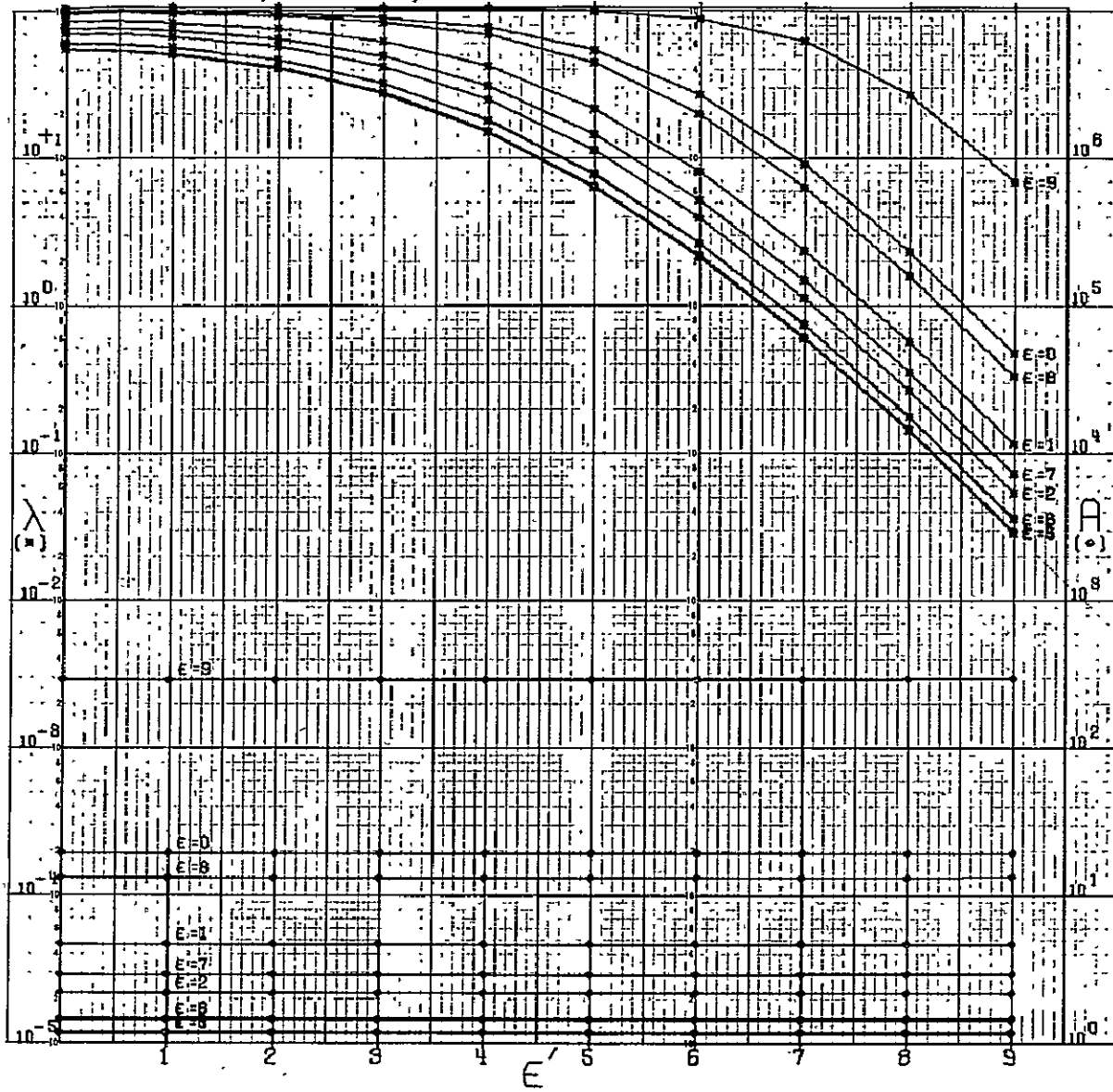
(DRAWN BY ROPE, CODE 542, GSFC)



N = 28
 CODE 1111010111100101100110000000
 GSFC STANDARD

$\eta = 1000$ $\beta = 100$

(DRAWN BY ROPS, CODE 592, GSFC)



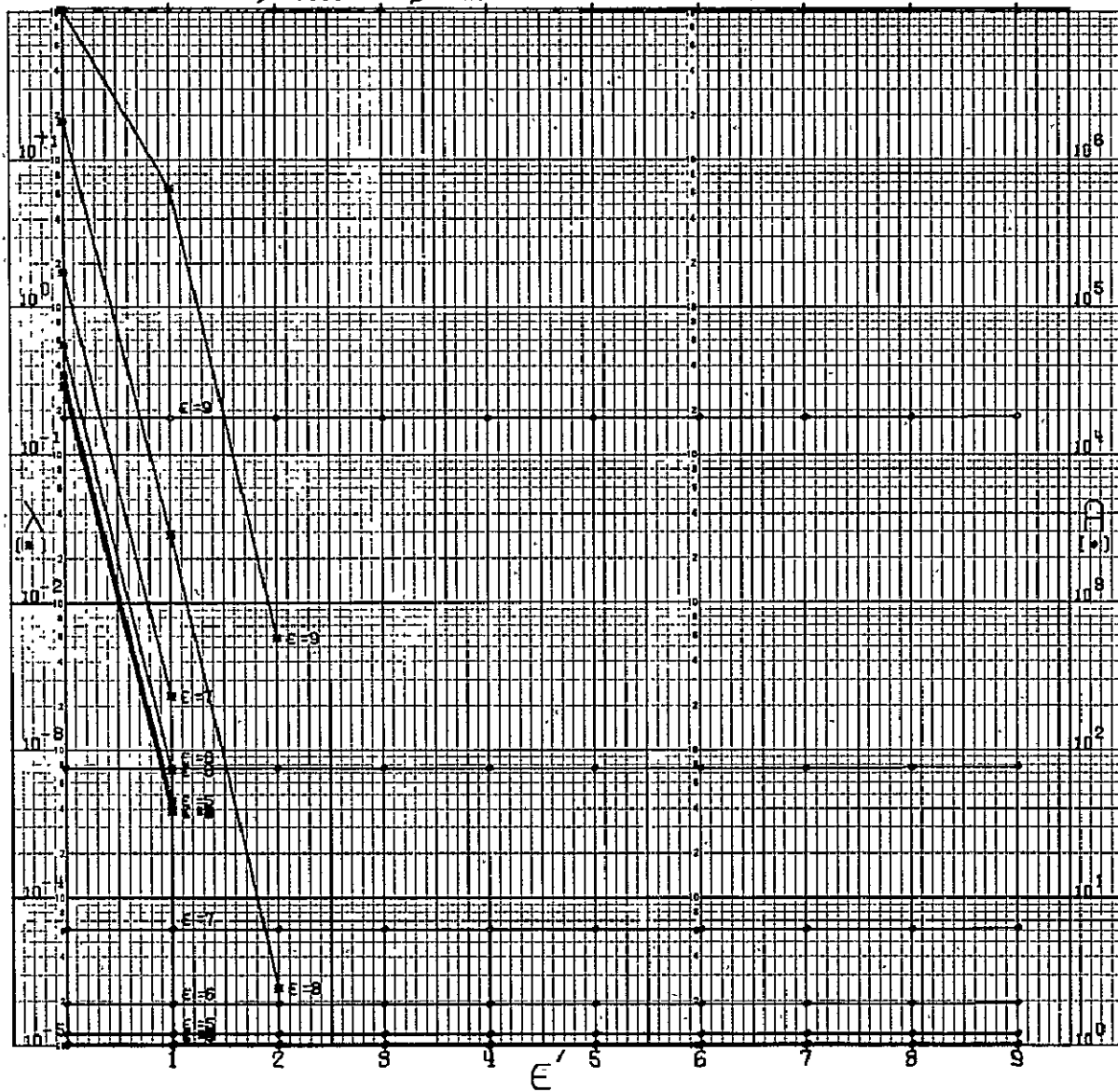
N = 28

CODE 1111010111100101100110000000
GSFC STANDARD

$b = .0001$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



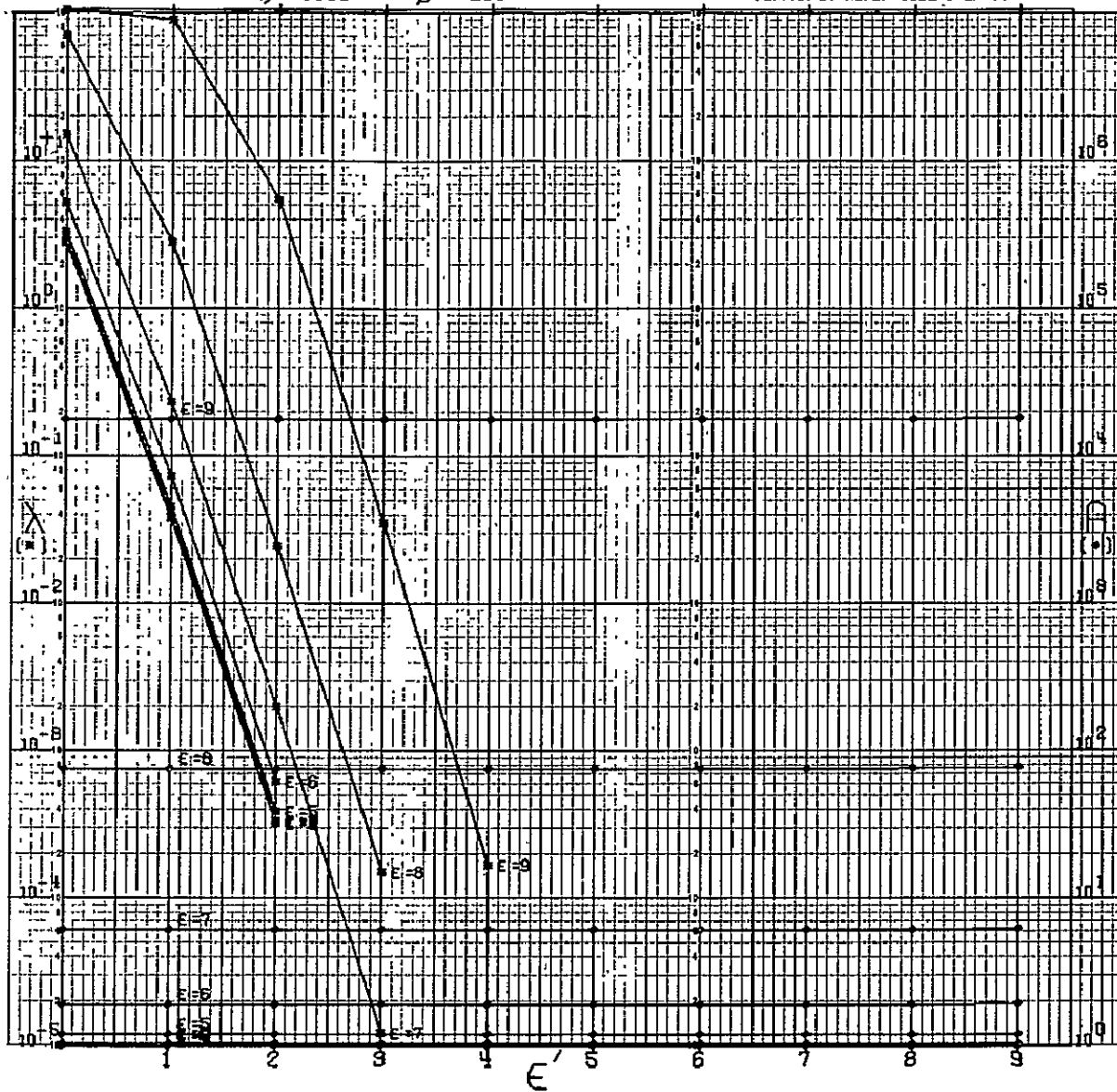
N = 28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPS, CODE 542, GSFC)



A-680

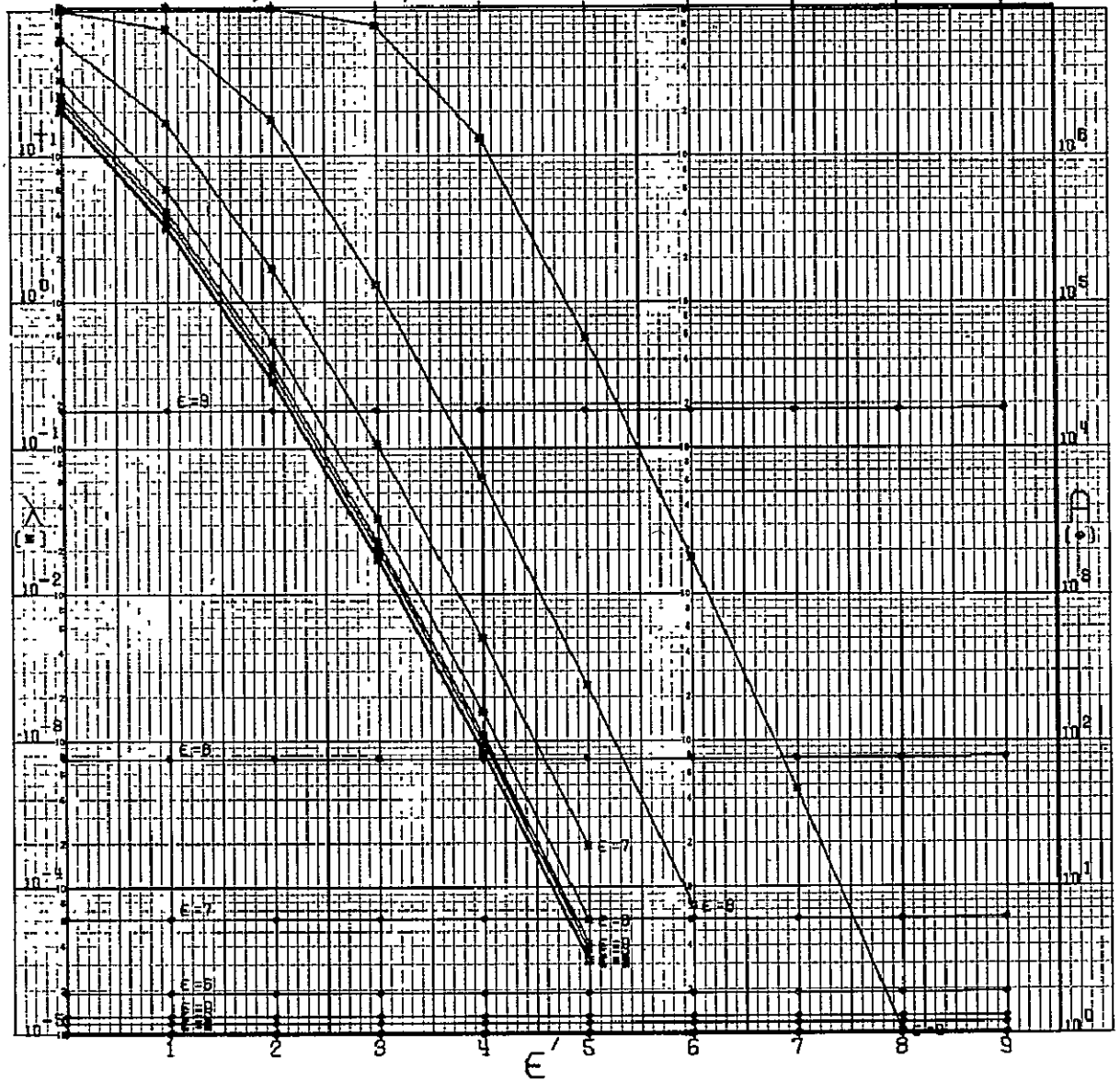
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 200$

(DRAWN BY ADPB, CODE 542, GSFC)



A-681

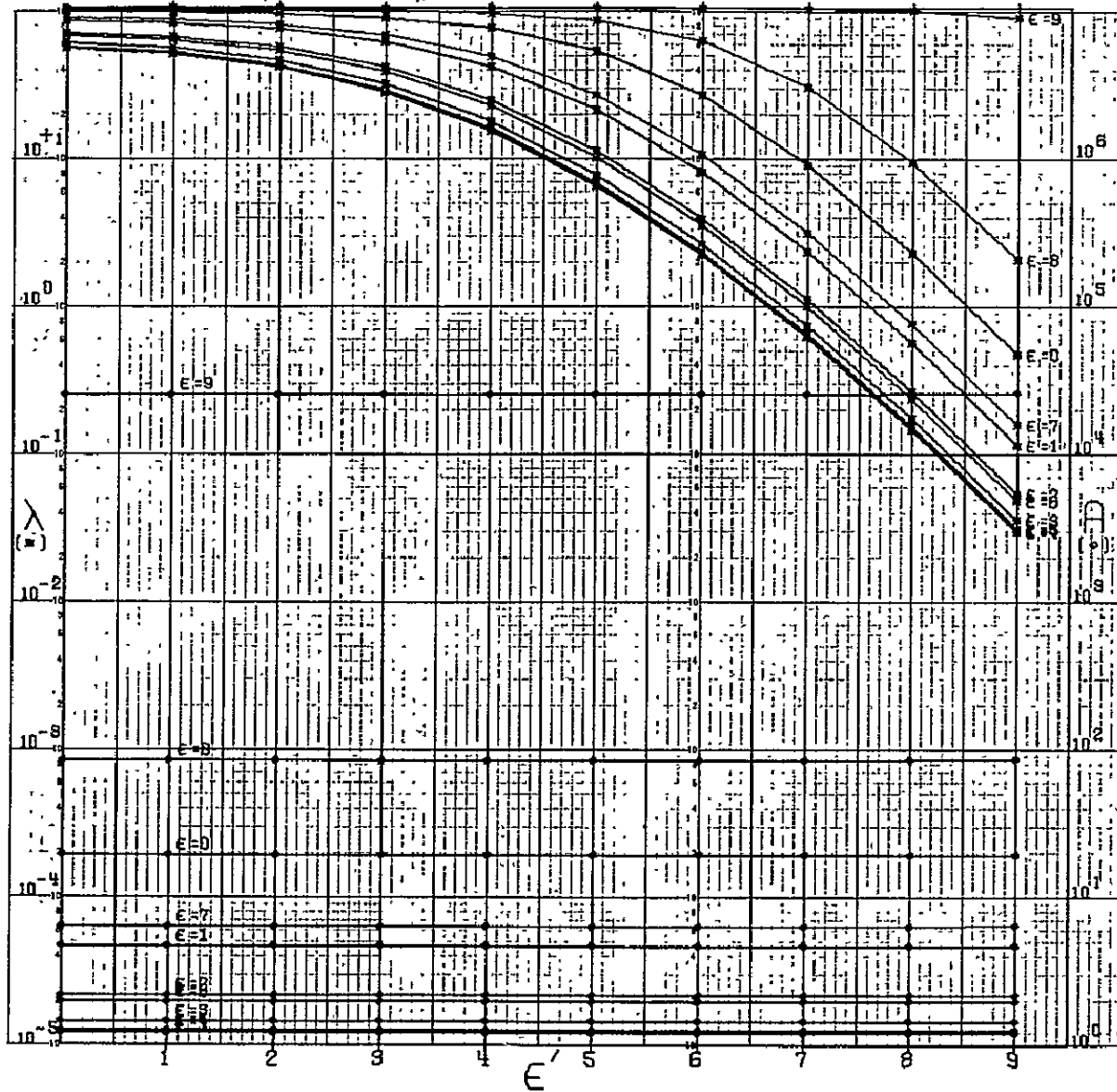
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPEL, CODE 592, GSFC)



A-682

N=28

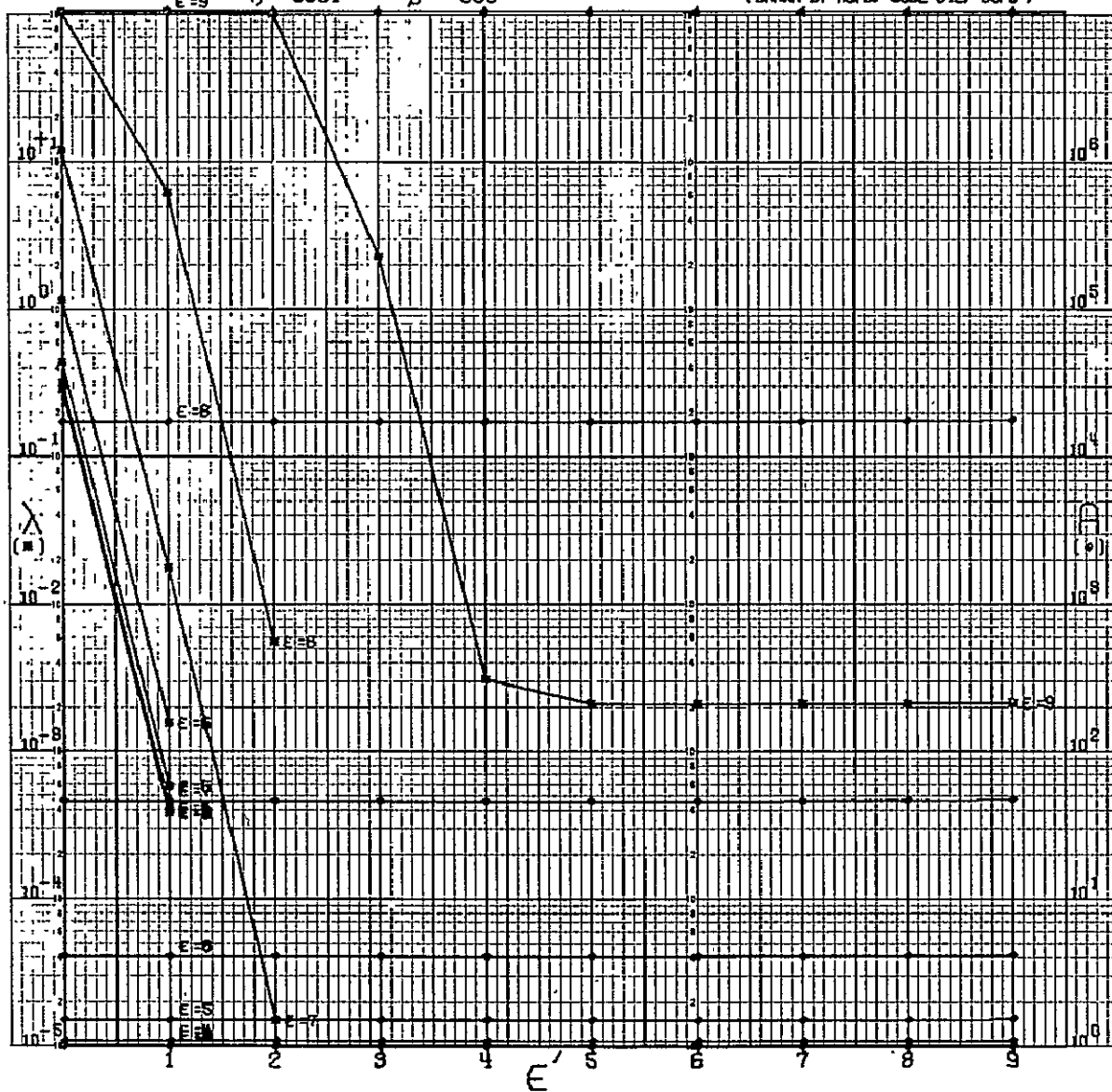
CDOE 1111010111100101100110000000
GSFC STANDARD

$\epsilon = 9$

$\eta = .0001$

$\beta = 500$

(DRAWN BY ROFB, CODE 542, GSFC)



N=28

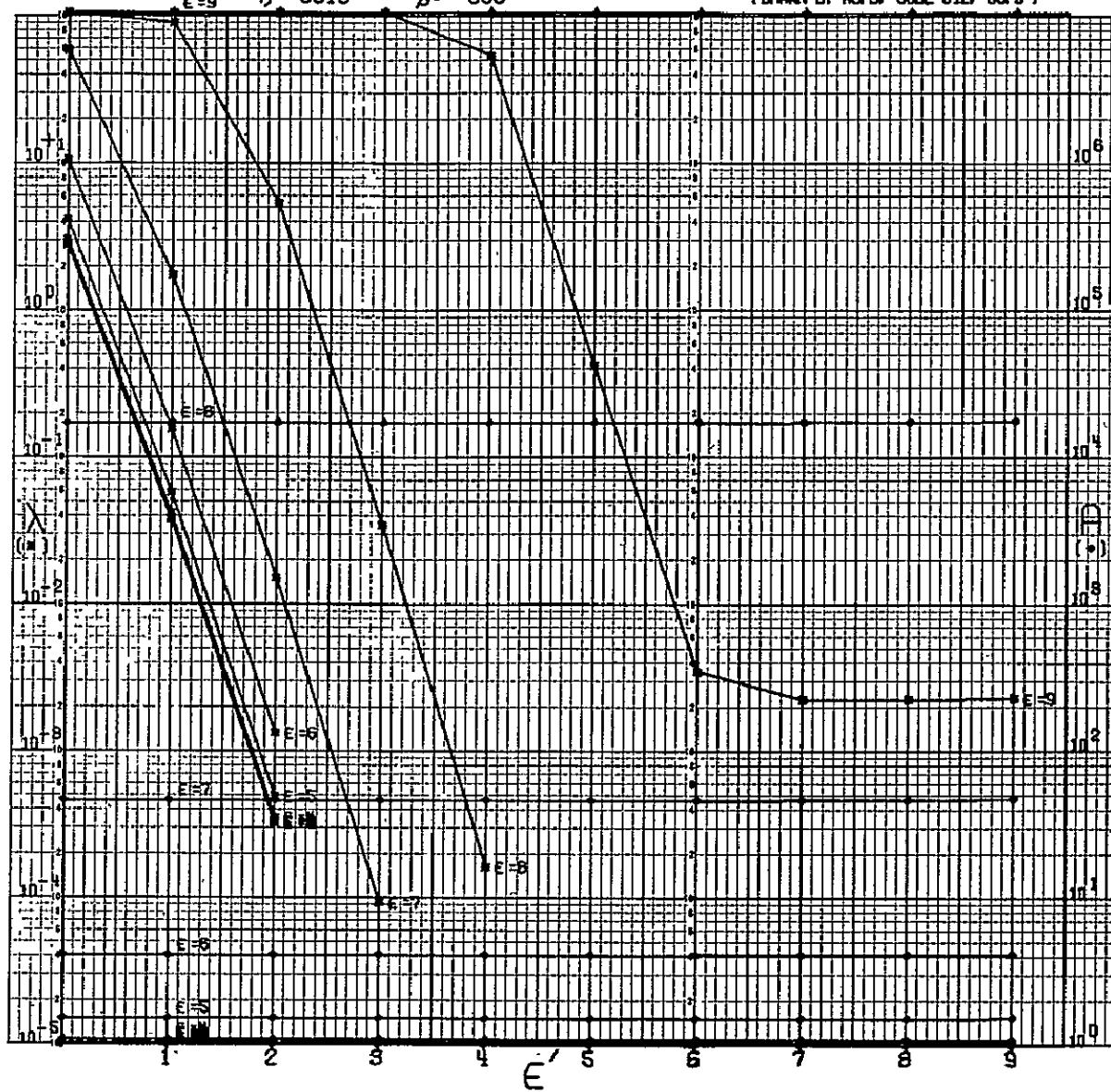
CODE 1111010111100101100110000000
GSFC STANDARD

$\epsilon = 9$

$\eta = .0010$

$\beta = 500$

(DRAWN BY ROFB. CODE 512. GSFC)



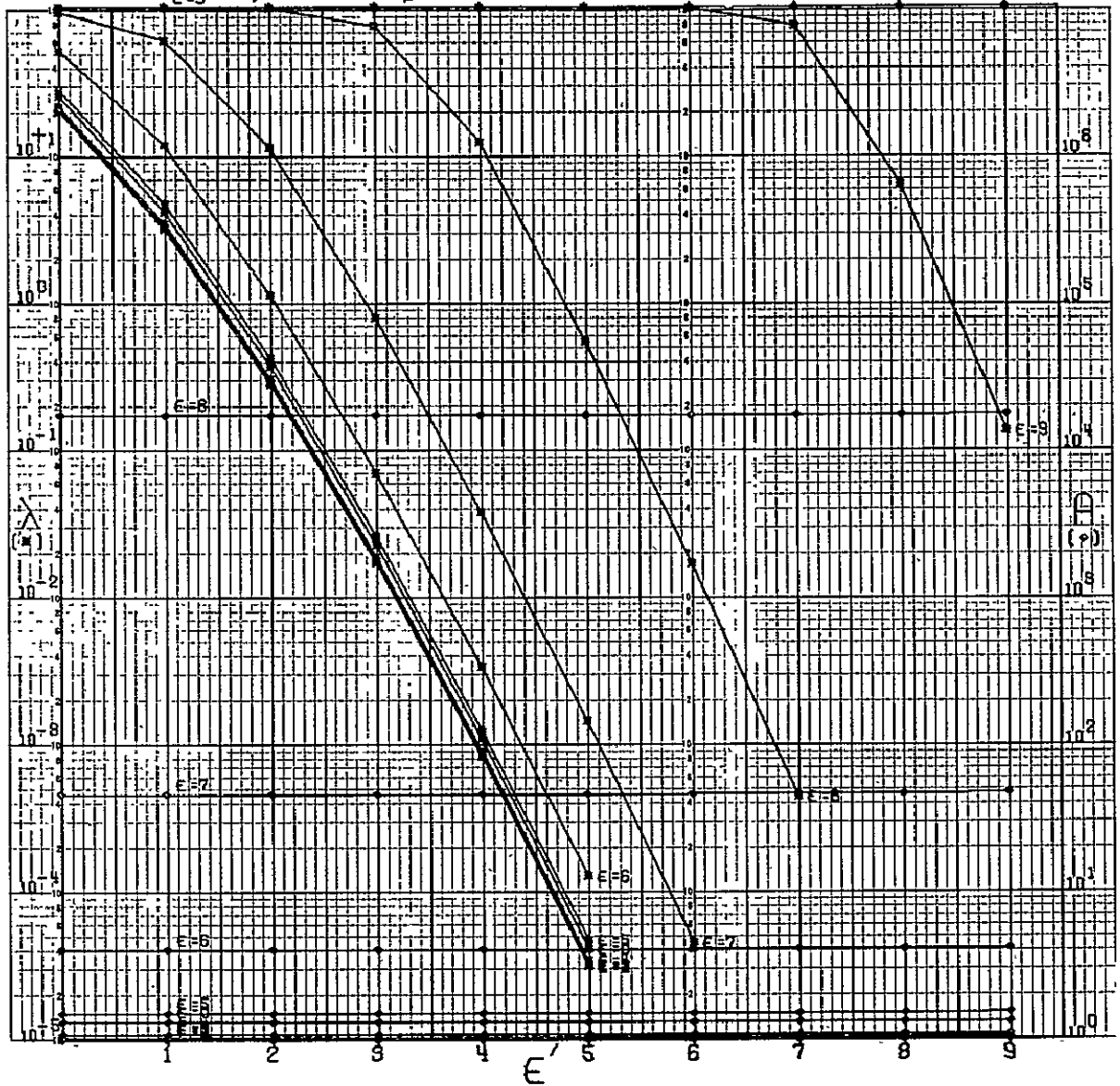
A-684

N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\epsilon = 9$ $\eta = 0.100$ $\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)

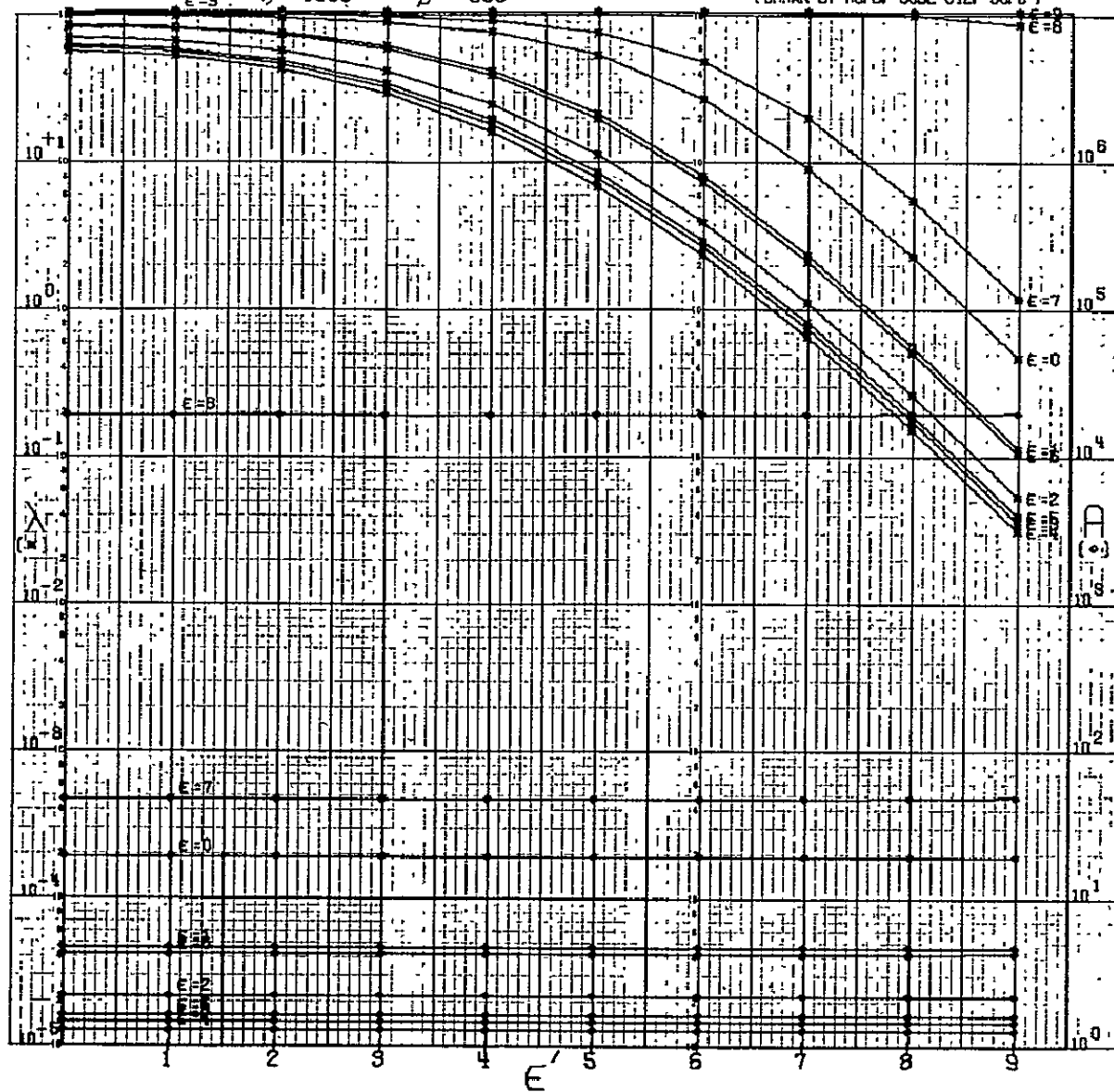


N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\epsilon = 9$ $b = 1000$ $\beta = 500$

(DRAWN BY ROPB. CODE 542. GSFC)



A-686

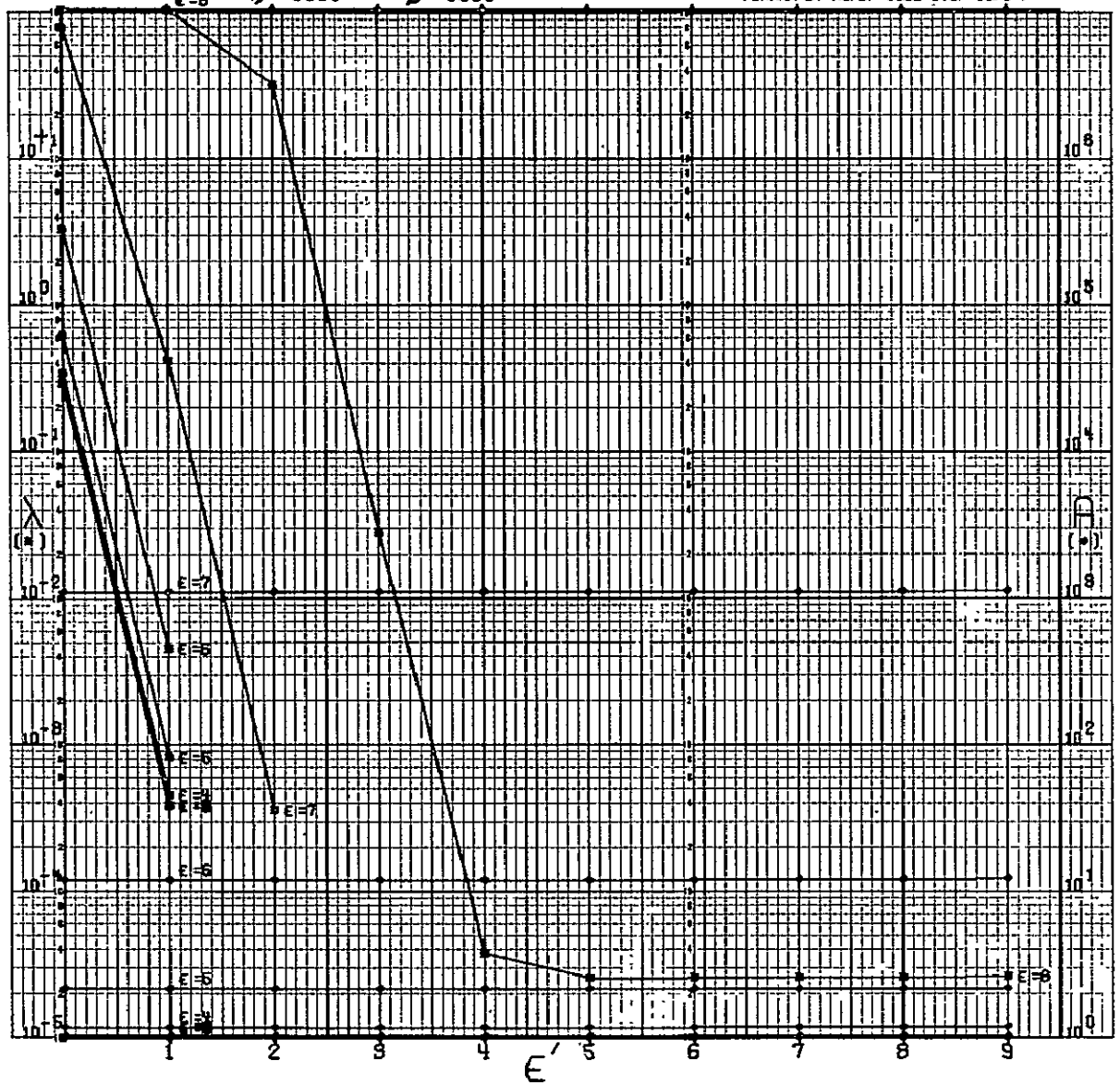
N=28

CODE 1111010111100101100110000000
GSPC STANDARD

$\eta = -0001$

$\beta = 1000$

(DRAWN BY ROMS CODE 542, GSPC)



A-687

N=28

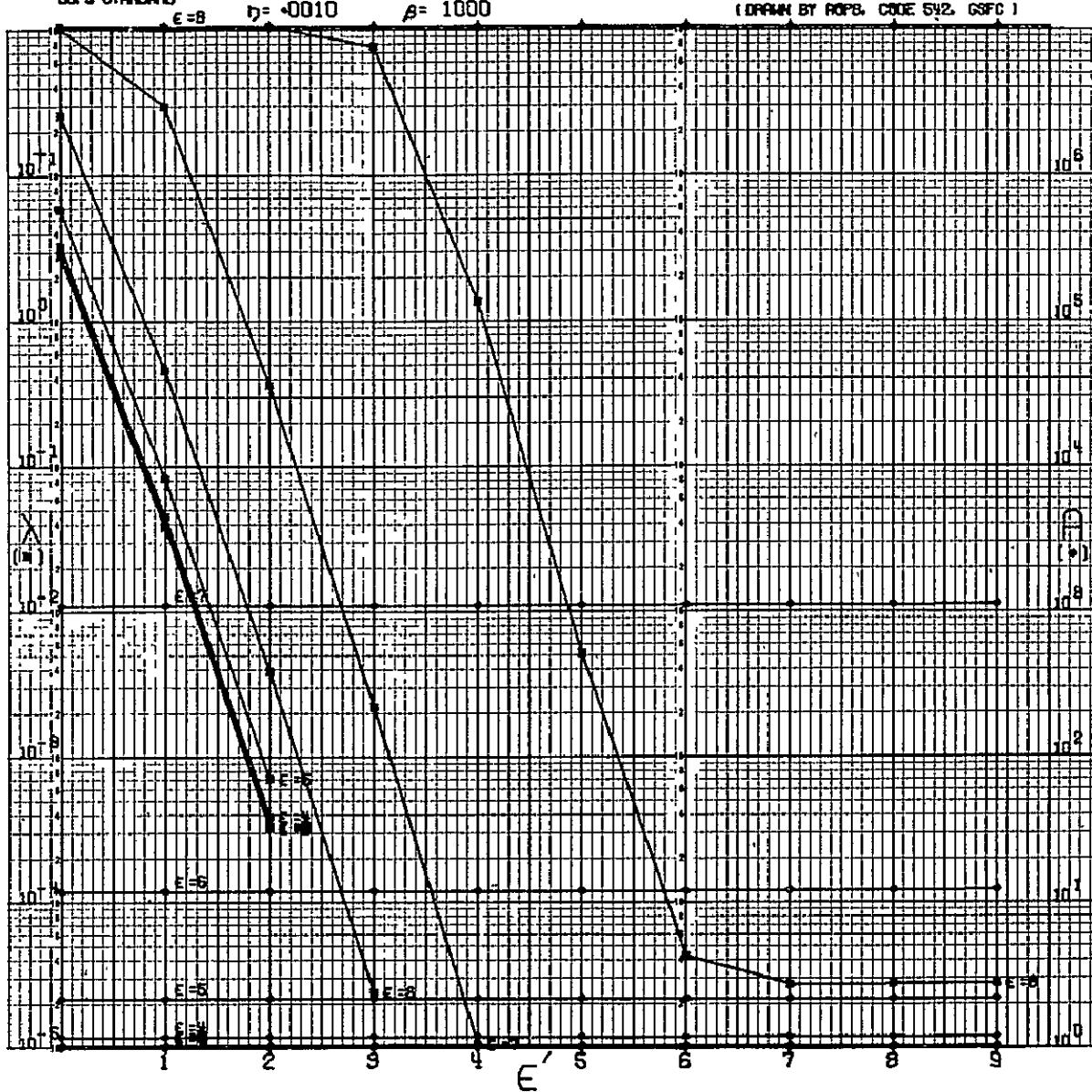
CODE 1111010111100101100110000000
GSFC STANDARD

$\epsilon = 8$

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



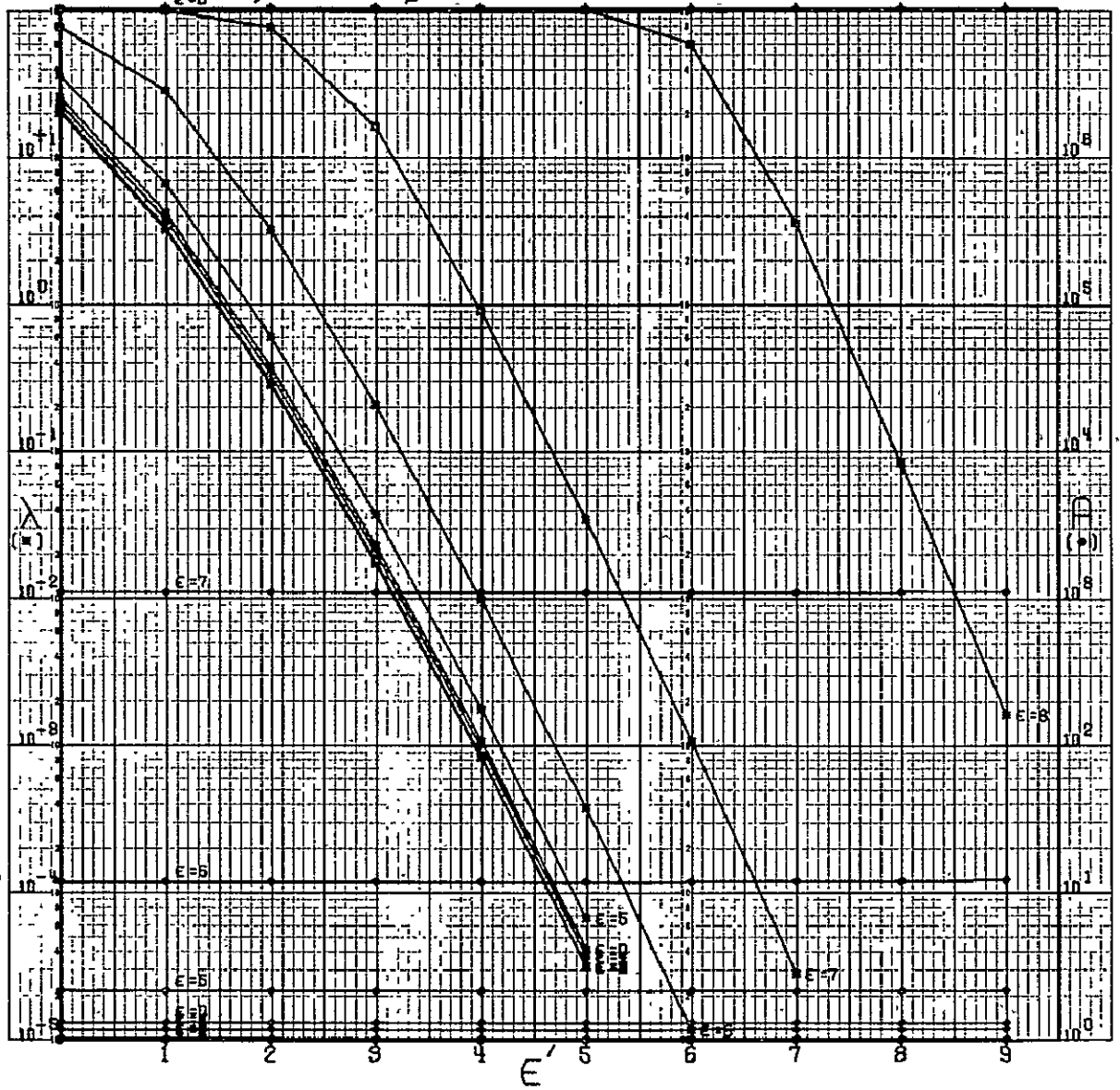
A-688

N=28

CODE 111101011100101100110000000
GSFC STANDARD

$\epsilon = 8$ $\gamma = 0.100$ $\beta = 1000$

(DRAWN BY ROPB, CODE 512, GSFC)



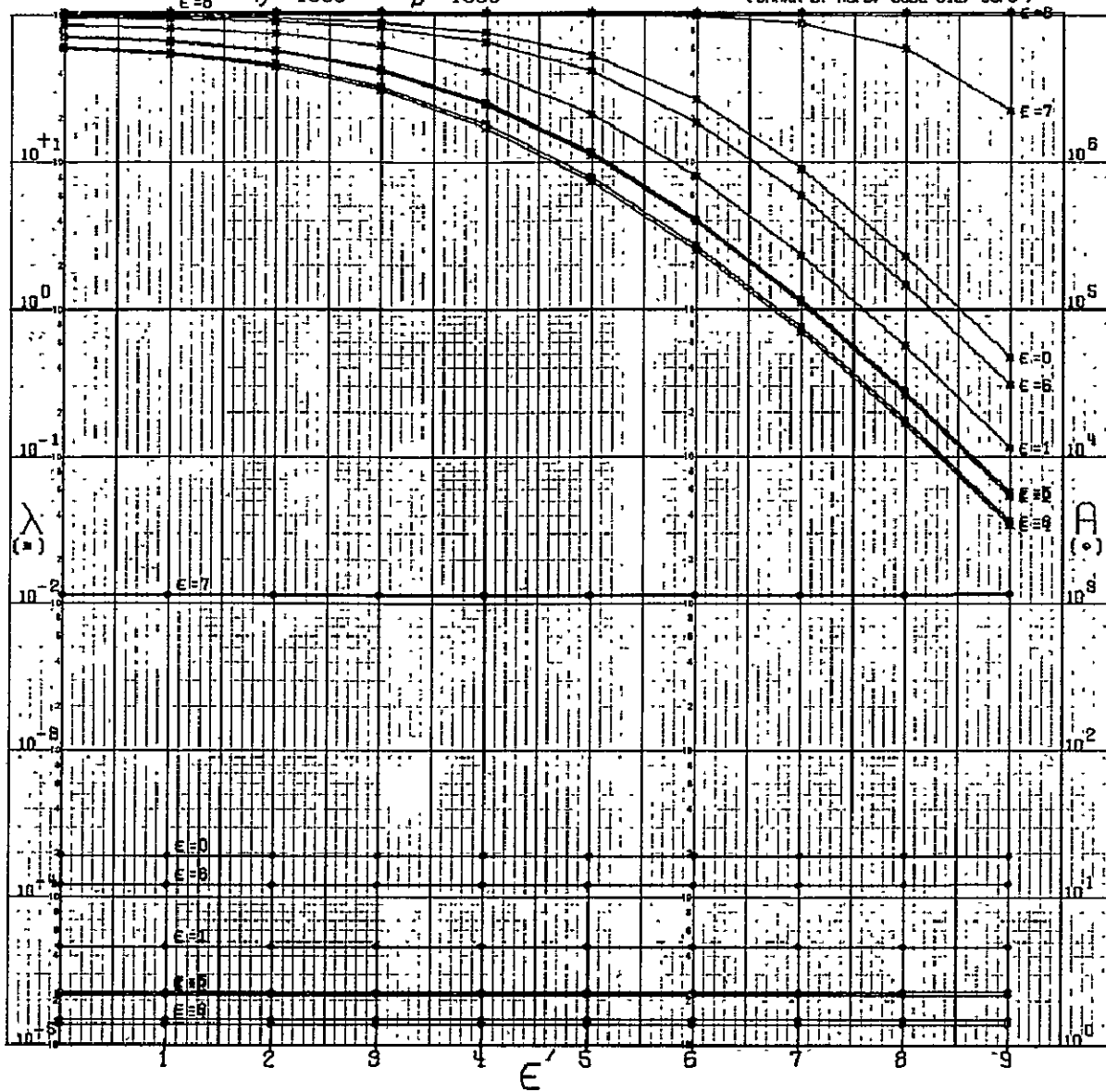
N=28

CODE 111101011100101100110000000
GSFC STANDARD

$\epsilon=8$ $\eta=1000$

$\beta=1000$

(DRAWN BY RSPB, CODE 542, GSFC)



A-690

N = 28

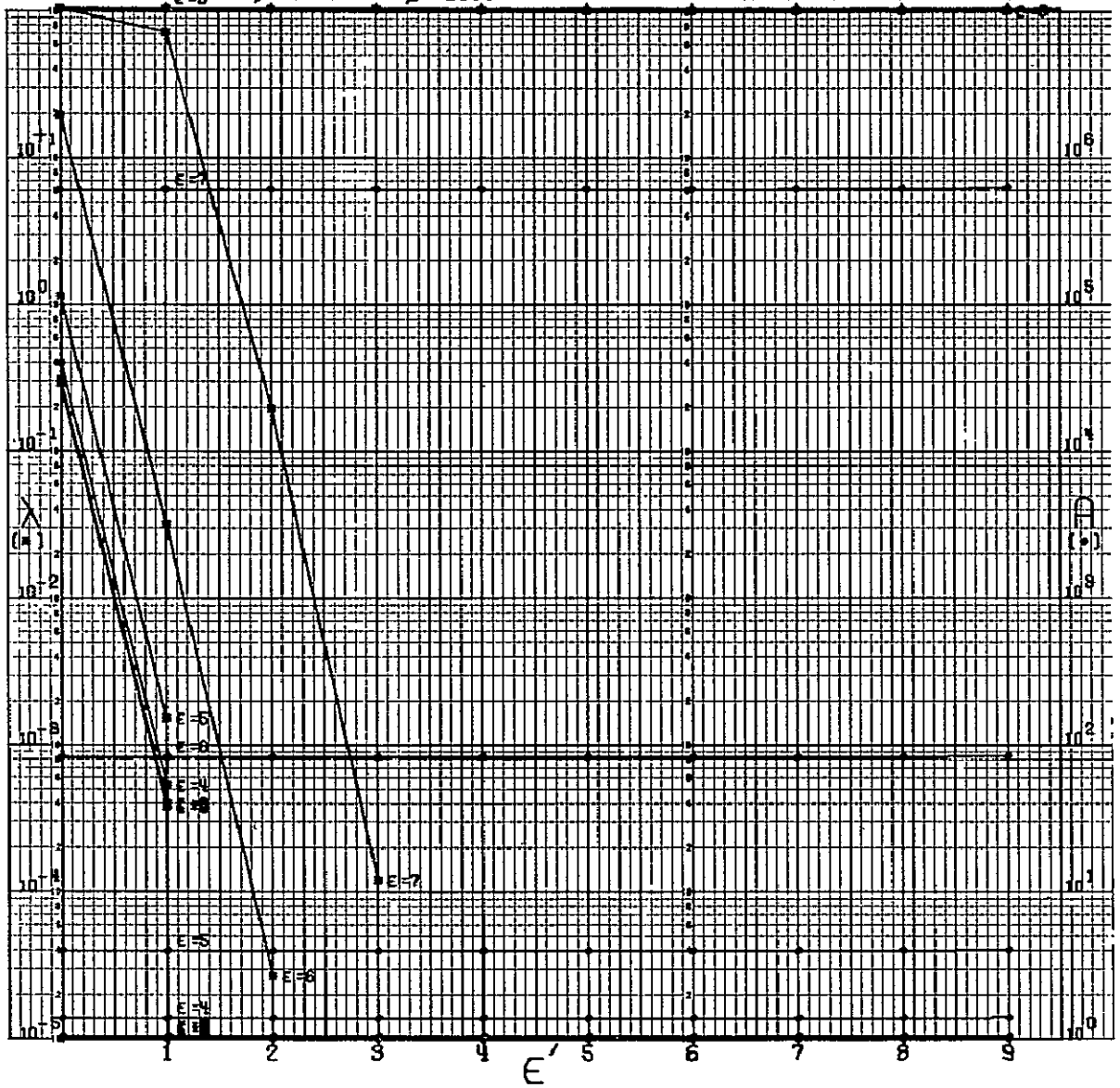
CASE 111101011100101100110000000
GDFC STANDARD

$\epsilon = 8$

$\eta = +0001$

$\beta = 2000$

(DRAWN BY ADFB CODE 542, GDFC)



N=28

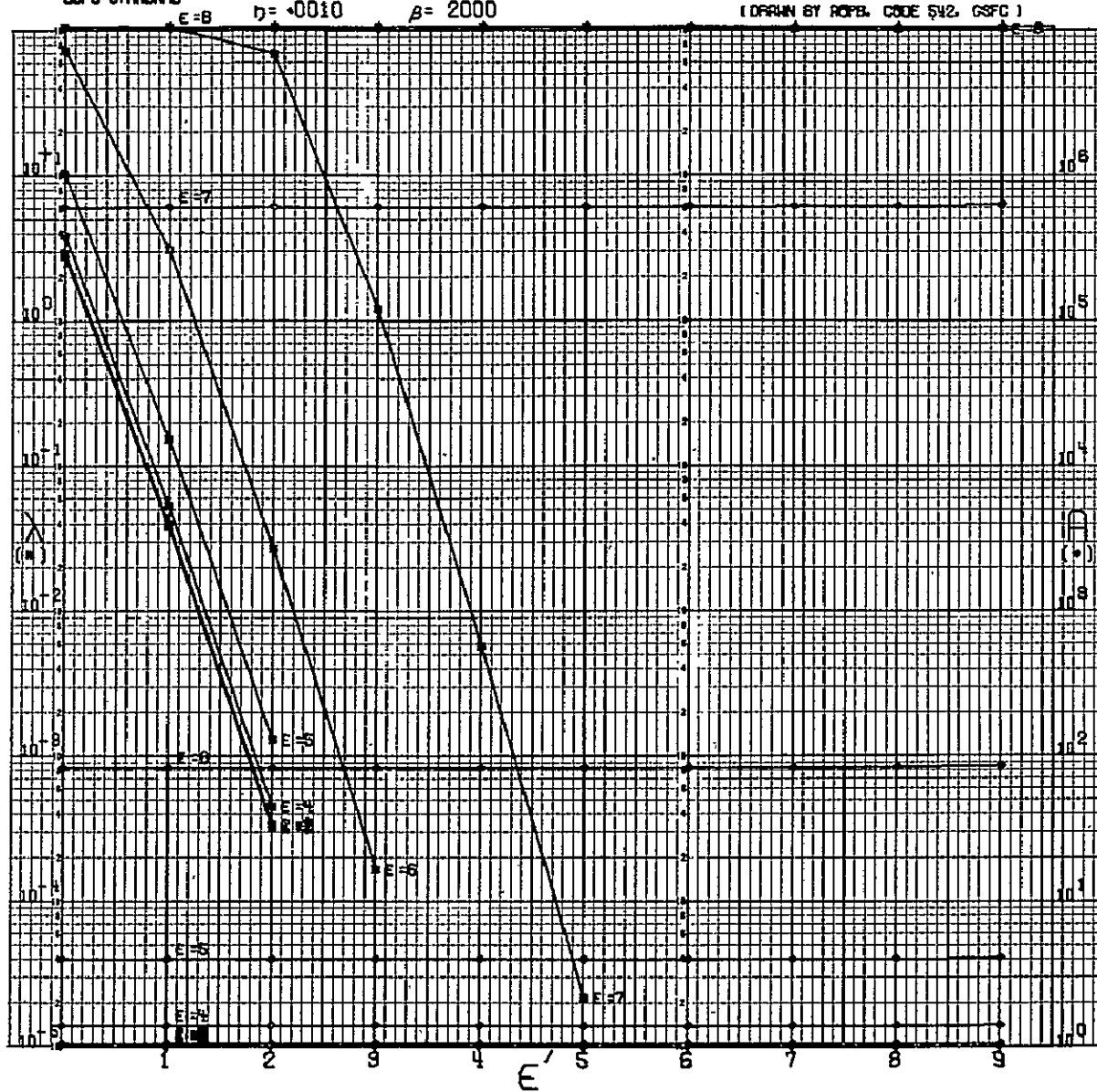
CODE 1111010111100101100110000000

GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPEL CODE 542 GSFC)



N=28

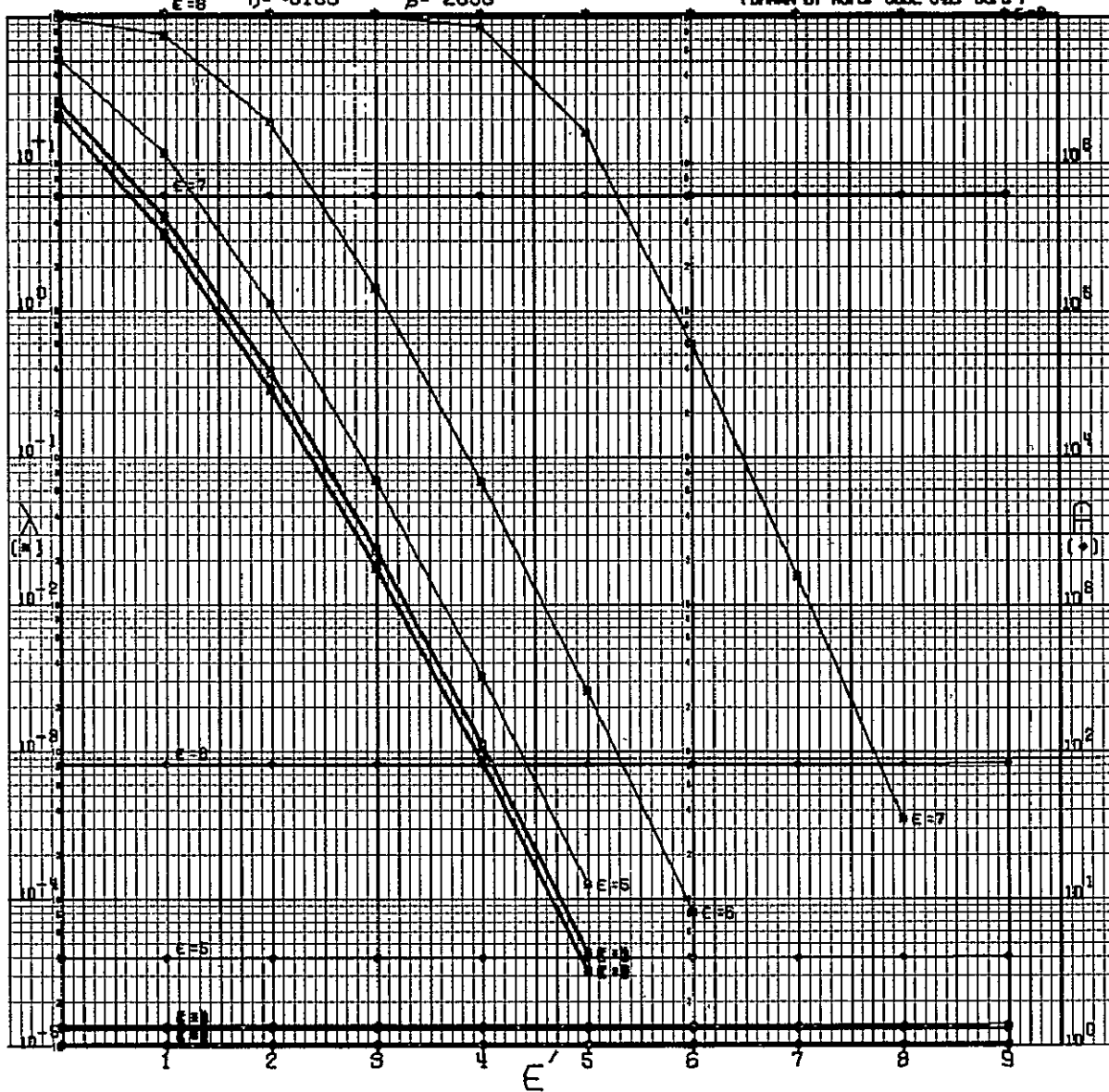
CODE 1111010311100101100110000000

GSFC STANDARD

$\epsilon = 8$ $b = -0.100$

$\beta = 2000$

(DRAWN BY ROPS, CODE 542, GSFC)



A-693

N=28

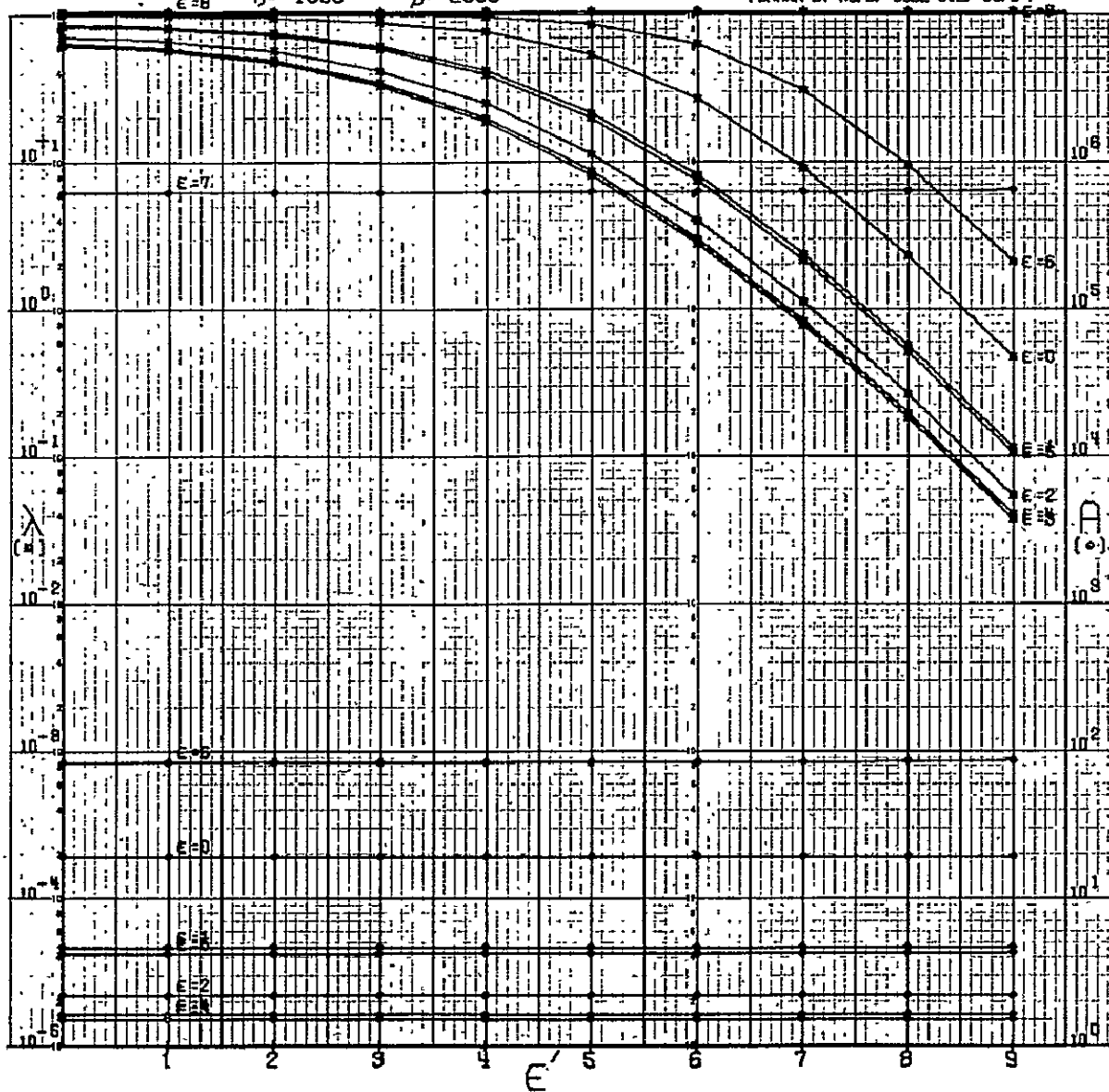
CODE 11110101111001011001100000X

GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-694

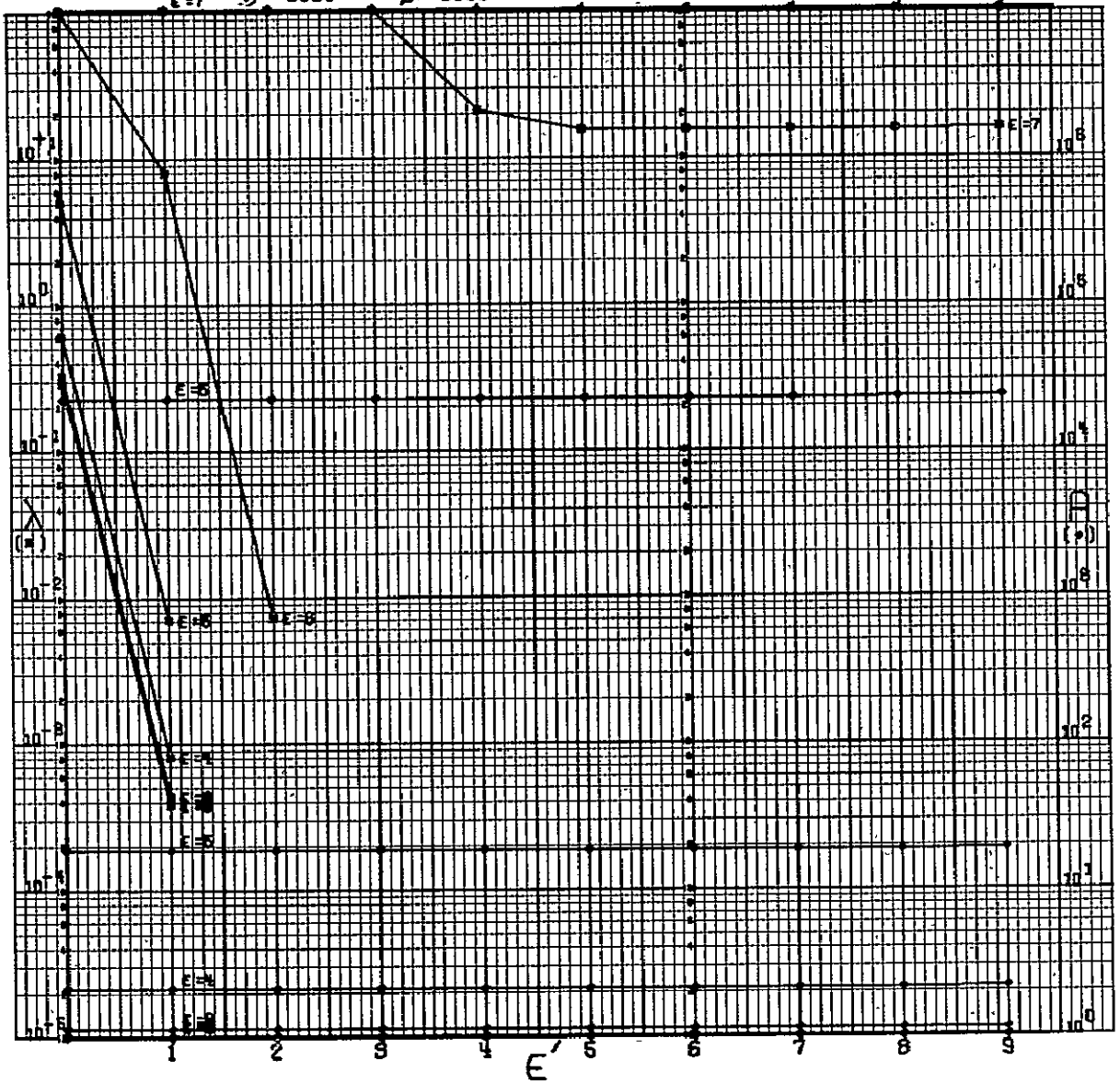
Nº 28

CODE 111101011100101100110000000
GSPC STANDARD

$\epsilon = 7$ $\beta = 0001$

$\beta = 5000$

(DRAWN BY ROPE CODE 512, GSPC)



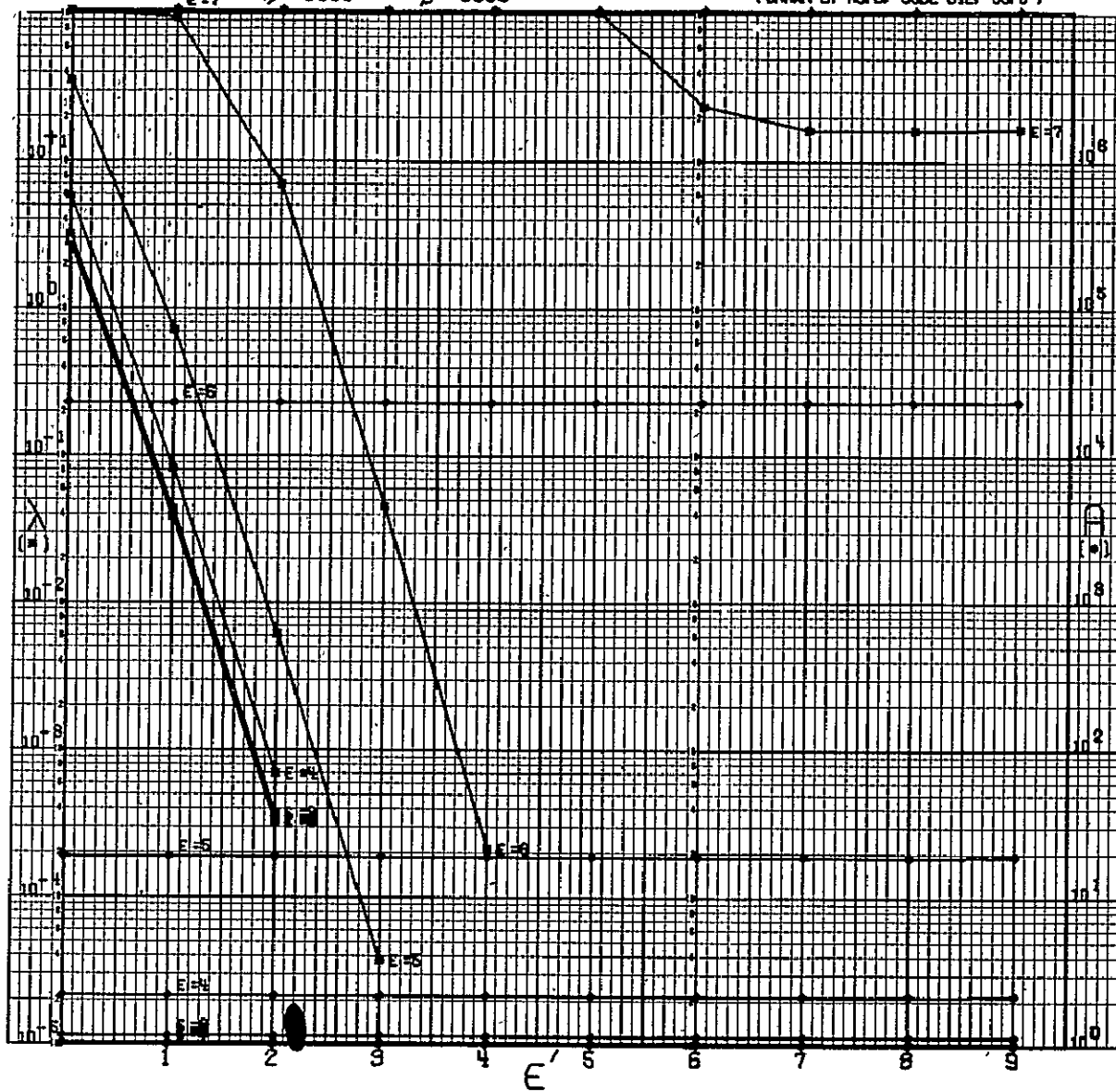
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = +0010$

$\beta = 5000$

(DRAWN BY ROPS CODE 542, GSFC)



A-696

N=28

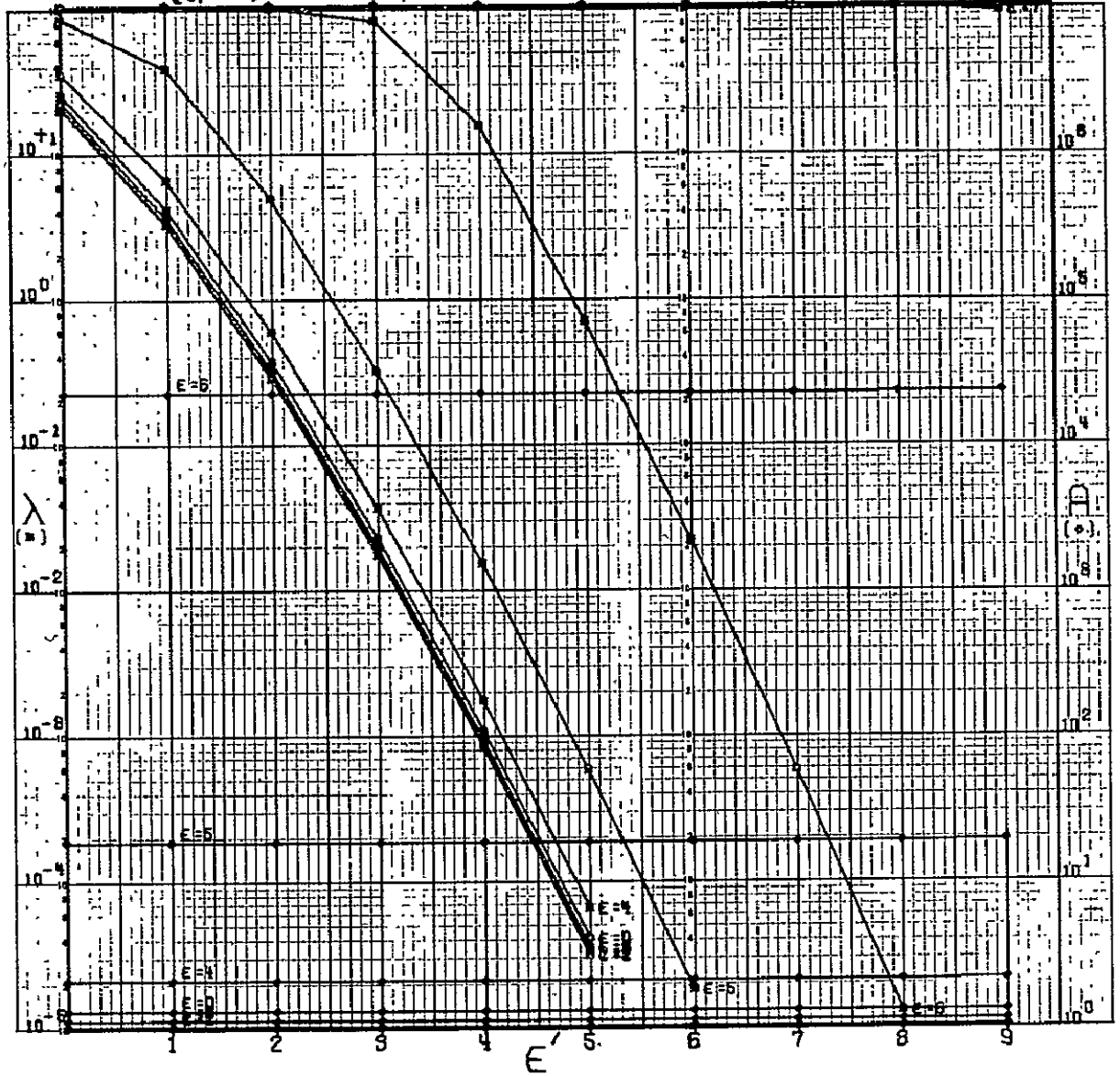
CODE 1111010111100101100110000000
GSPC STANDARD

$\epsilon=7$

$\eta = -0.100$

$\beta = 5000$

(ORIGIN BY ROPS, CODE 542, GSPC)



A-697

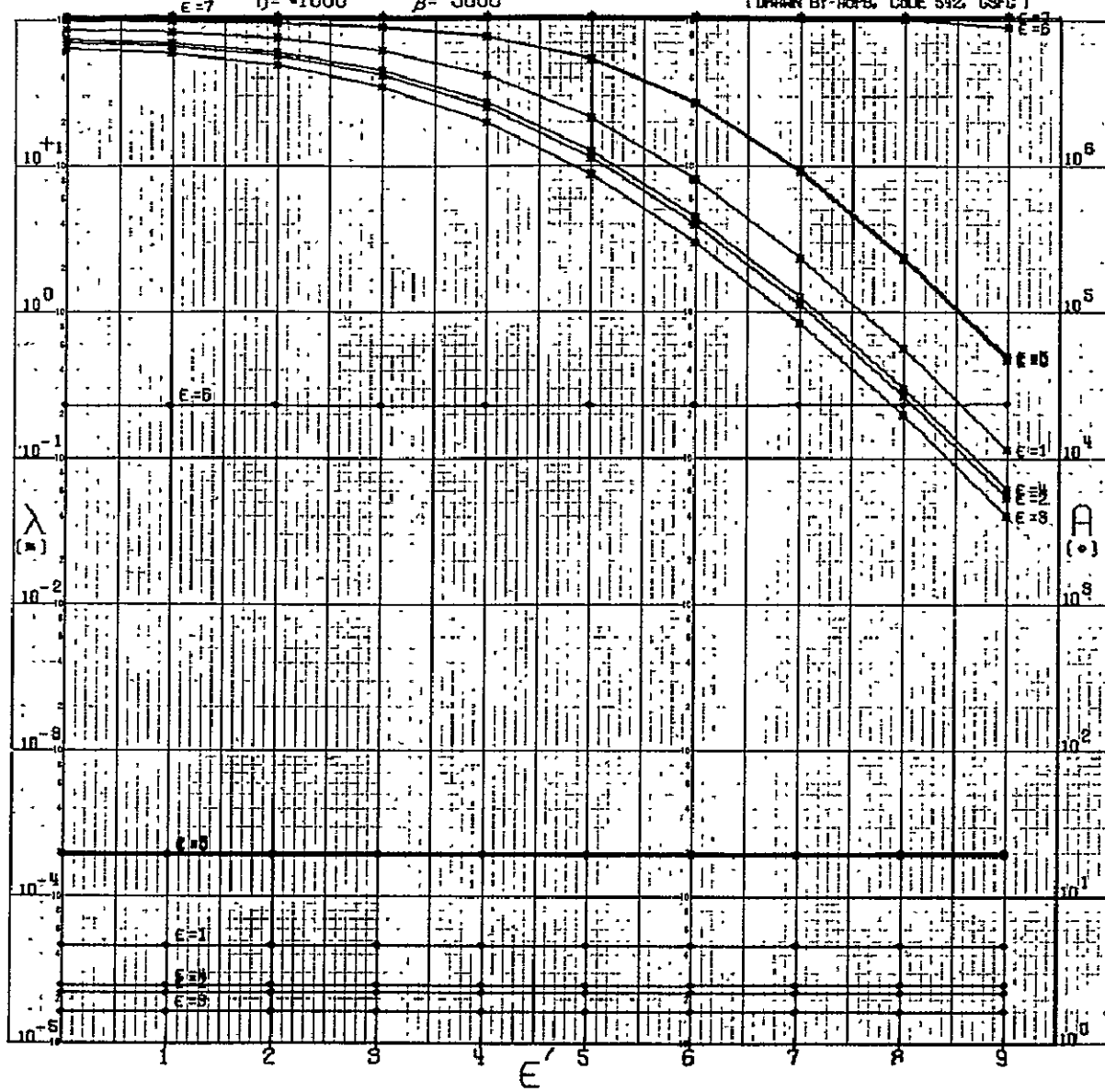
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 5000$

(DRAWN BY-ROFB, CODE 542, GSFC)



A-698

N=28

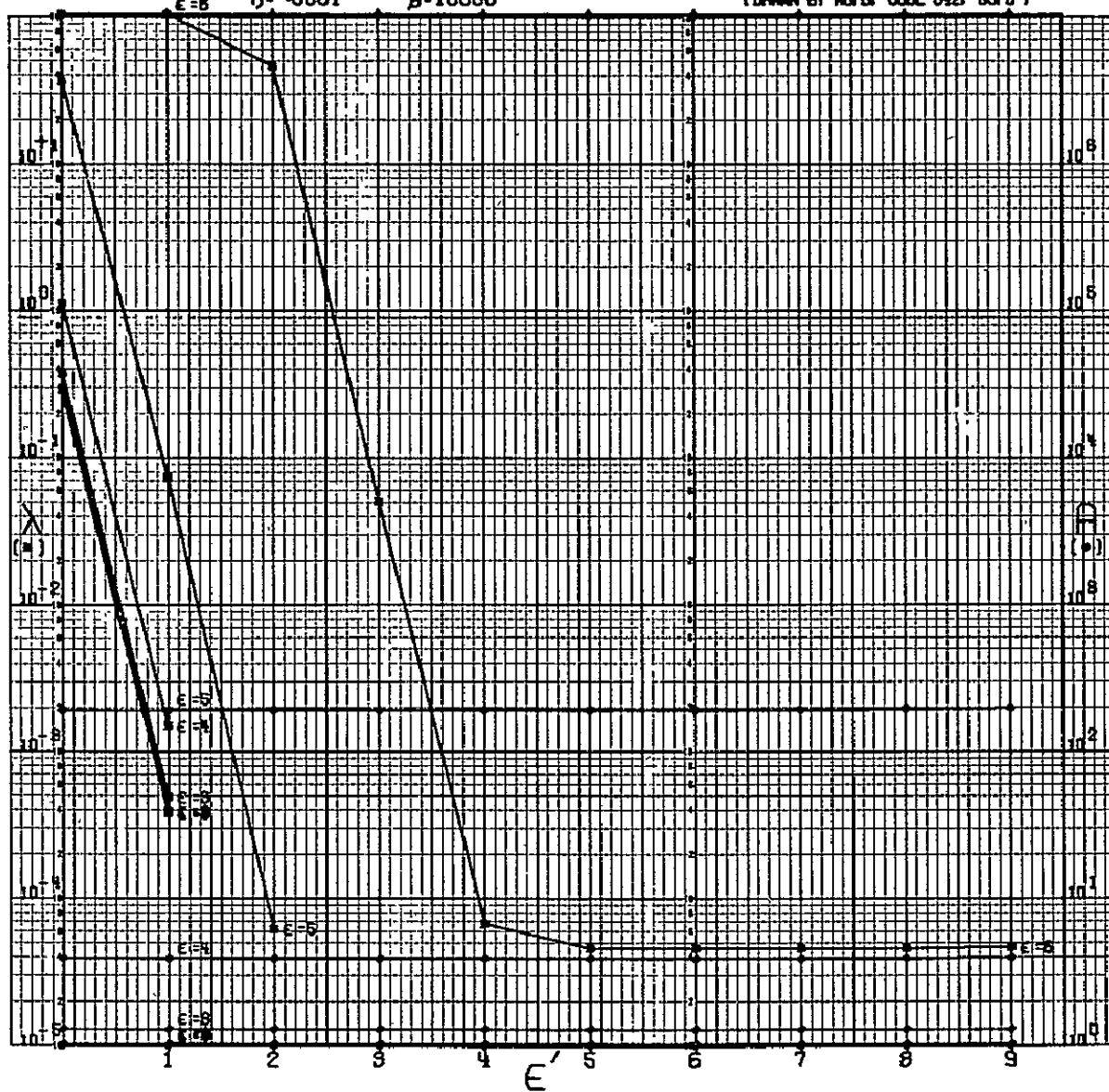
CODE 11120101110010110010000000

CSFC STANDARD

$\eta = -0.001$

$\beta = 10000$

(DRAWN BY ROPS, CODE 542, CSFC)



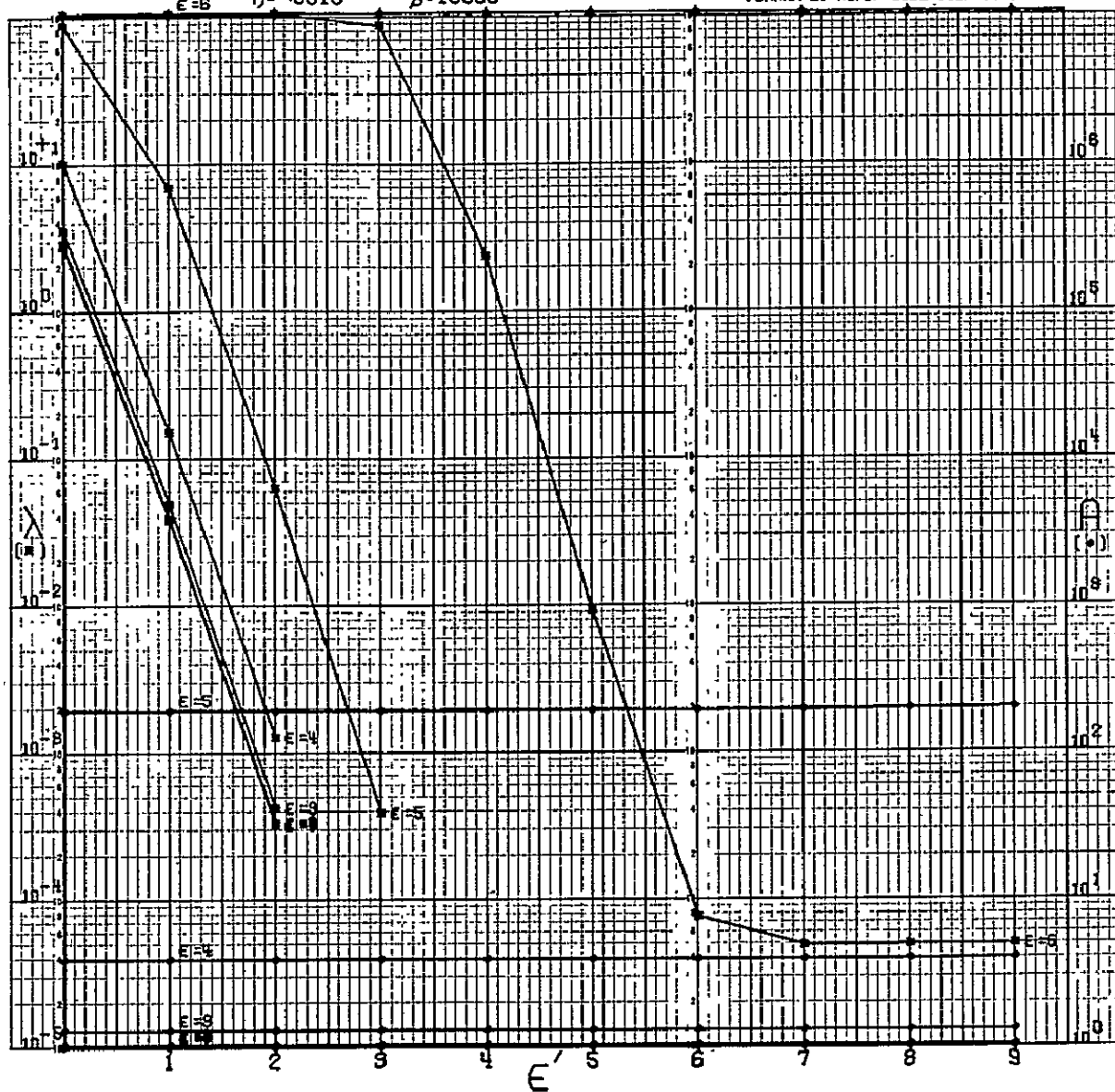
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 0.0010$

$\beta = 10000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-700

N = 28

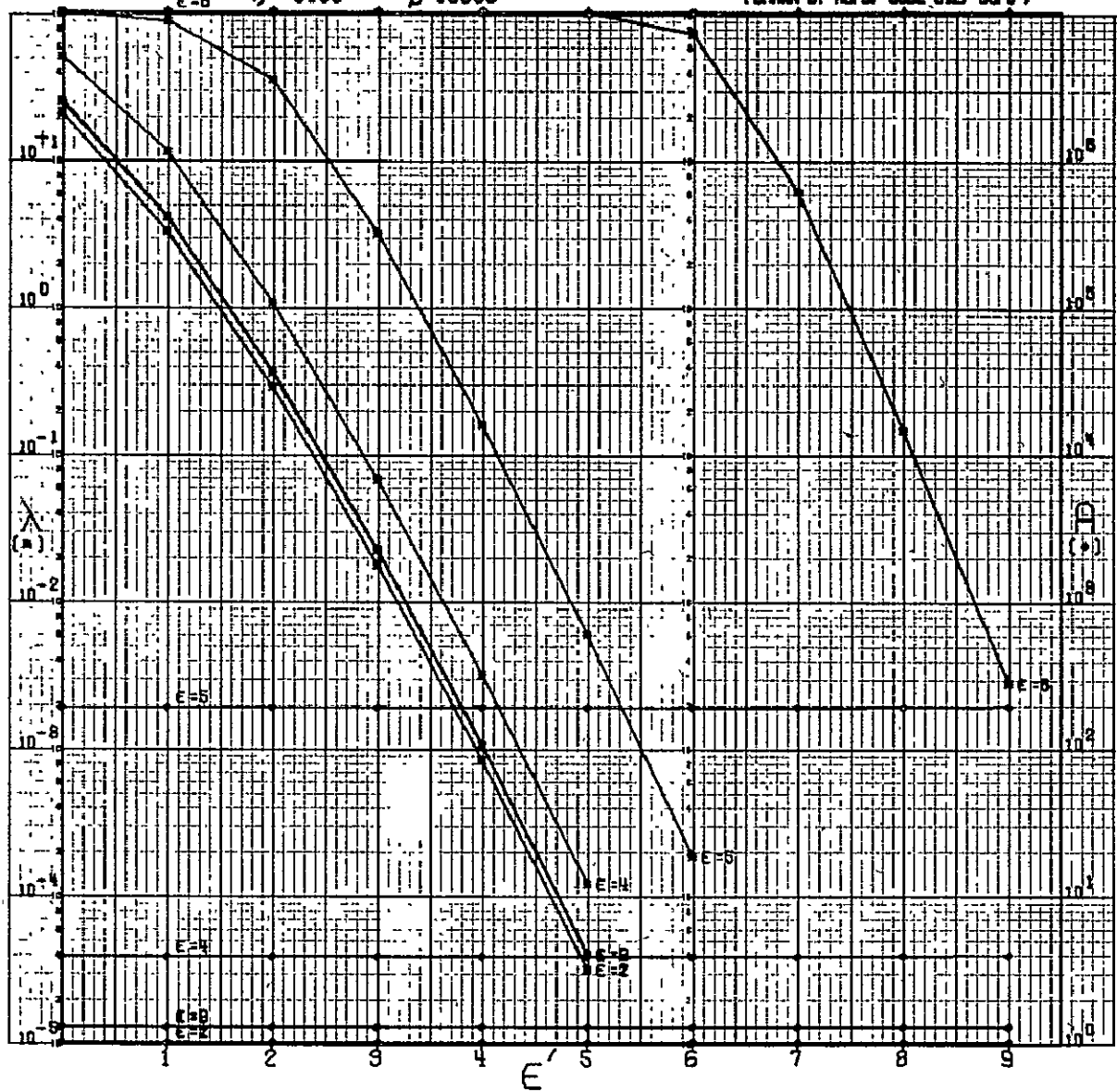
CODE 11110101110010110011000000P

GSFC STANDARD

$\eta = 0.100$

$B = 10000$

(DRAWN BY AFPS, CODE 512, GSFC)



A-701

N=28

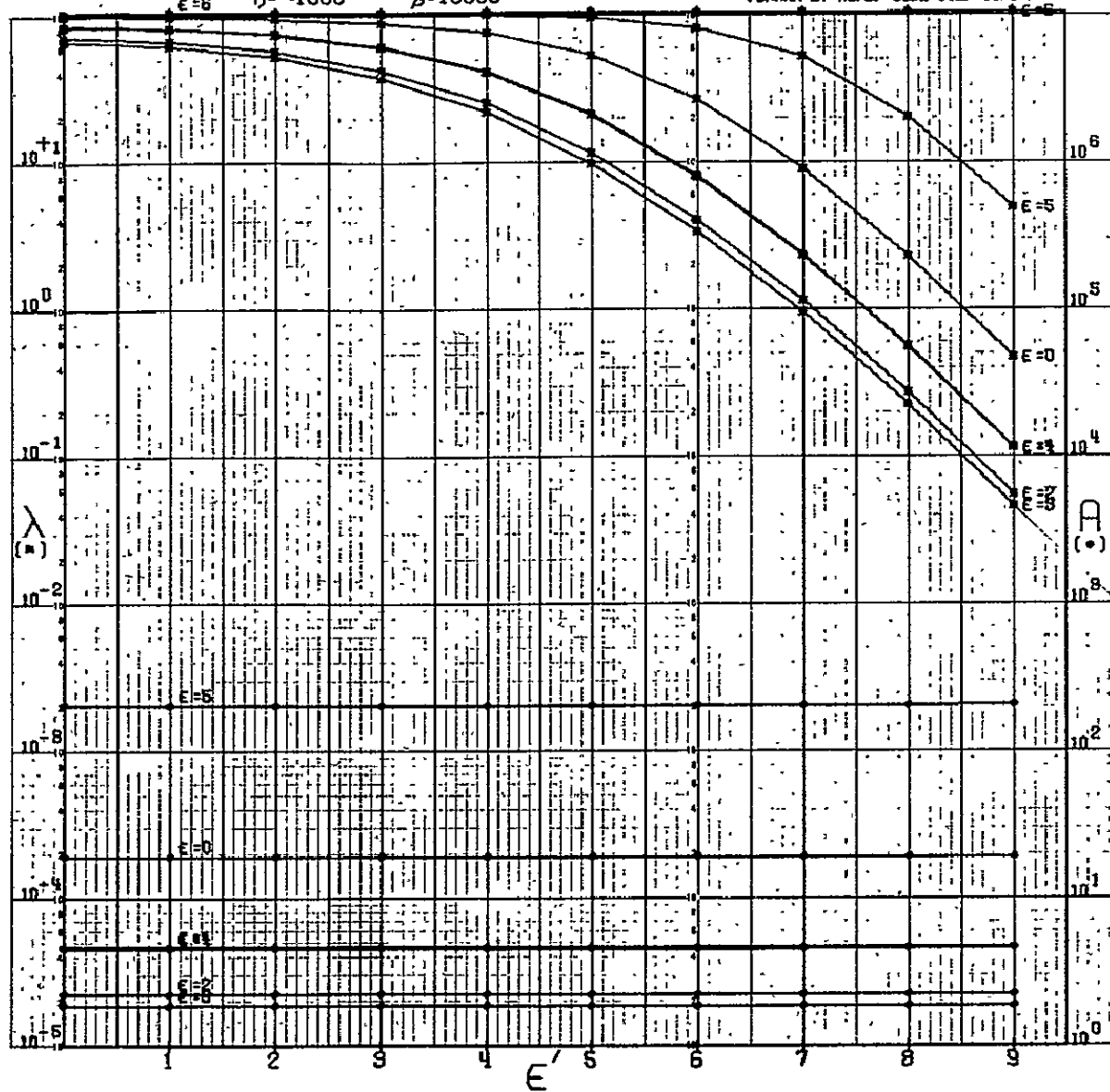
CODE 1111010111100101100110000000

GSFC STANDARD

$\epsilon = 6$ $\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPE, CODE 542, GSFC)



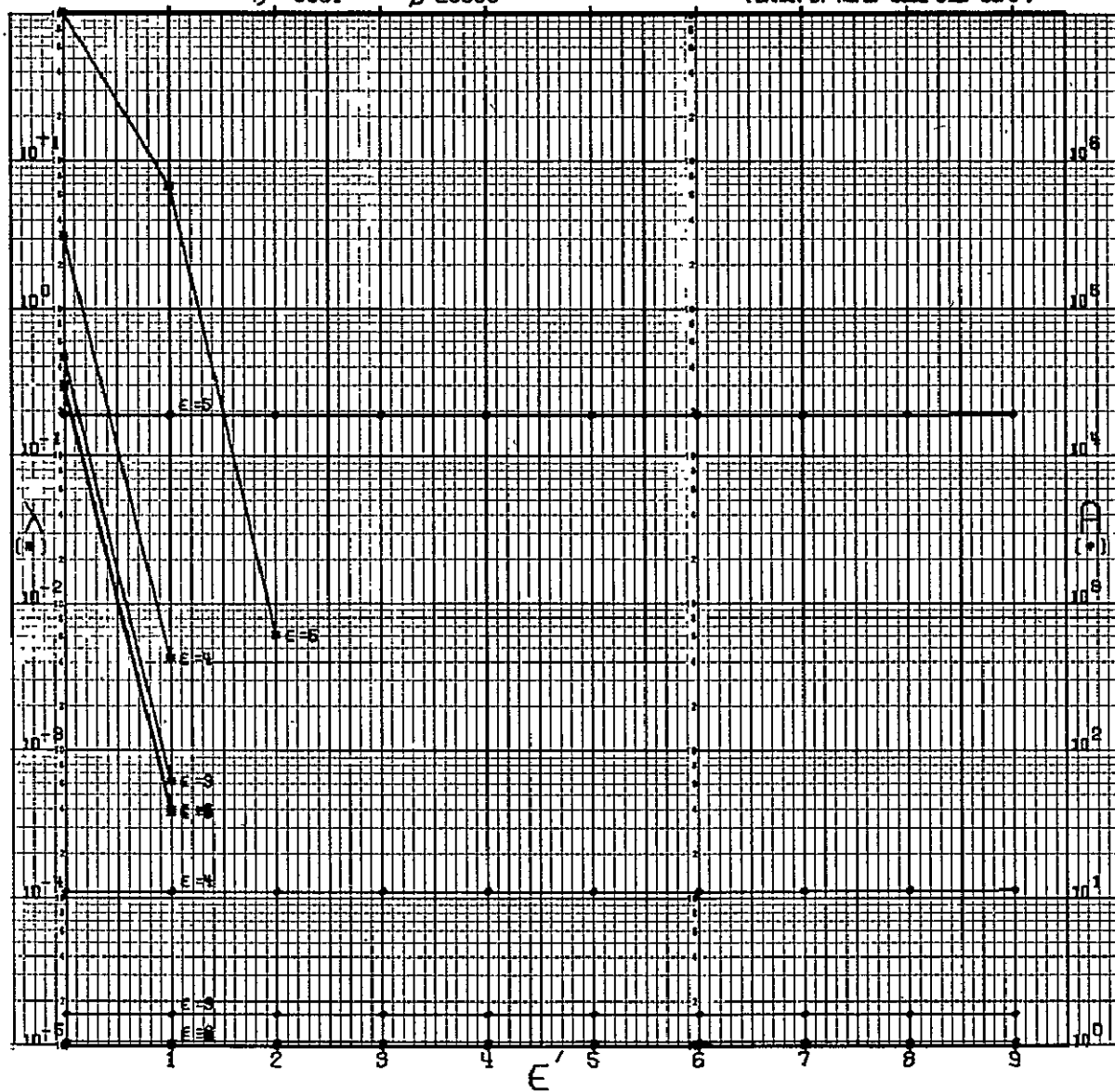
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 0.001$

$\beta = 20000$

(DRAWN BY AOPB. CODE 642. GSFC)



A-703

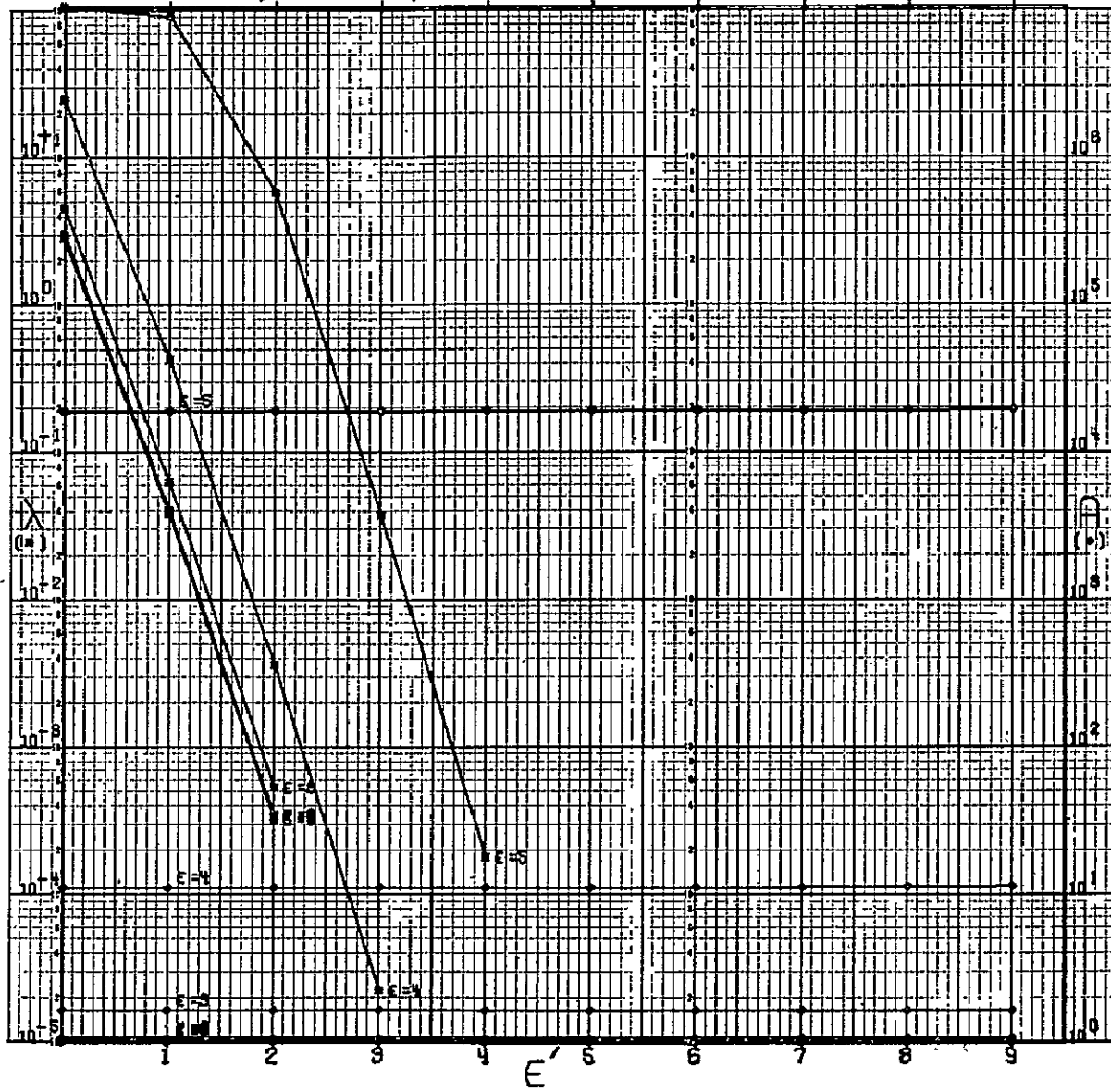
N=28

CODE 111101011100101100110000000
GSFC STANDARD

$\alpha = -0010$

$\beta = 20000$

(DRAWN BY ROPS, CODE 542, GSFC)



A-704

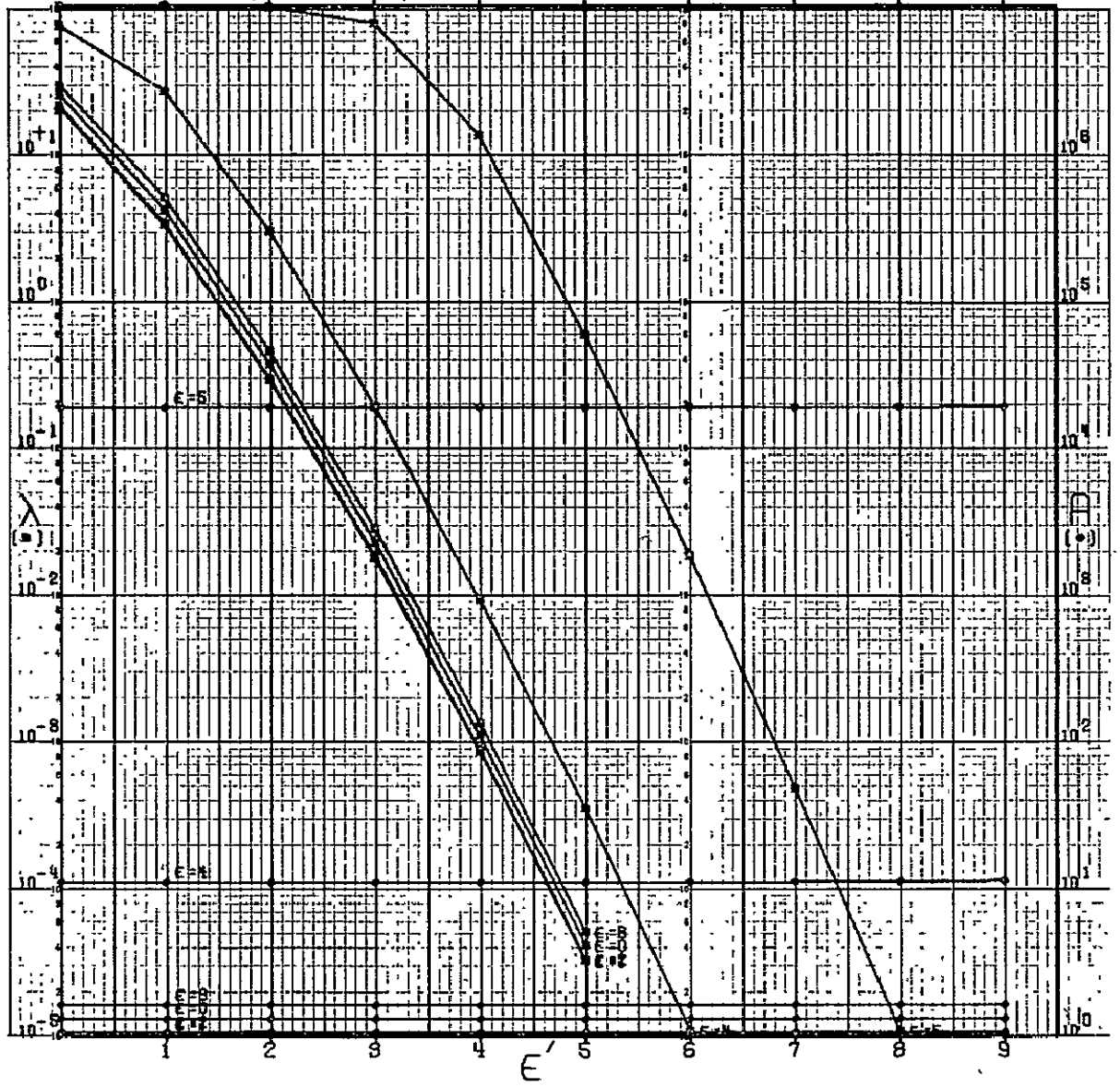
N = 28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 0.0100$

$\beta = 20000$

(DRAWN BY ROPEL CODE 512, GSFC)



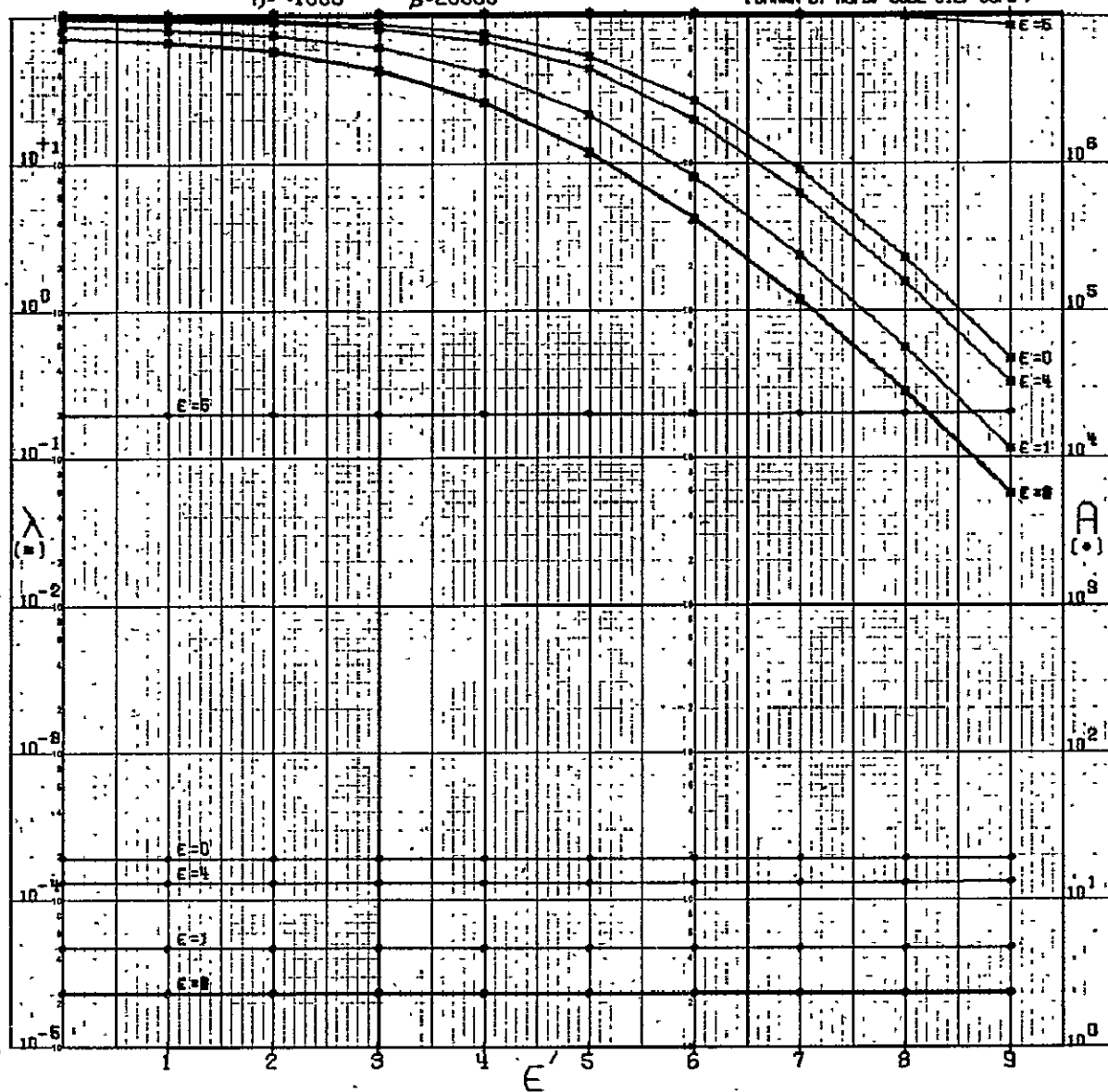
N=28

CODE 1111010111100101100110000000
GSFC STANDARD

$\eta = 1000$

$\beta = 20000$

(DRAWN BY ROPL CODE 592, GSFC)



A-706

$$N = 29 \mid$$

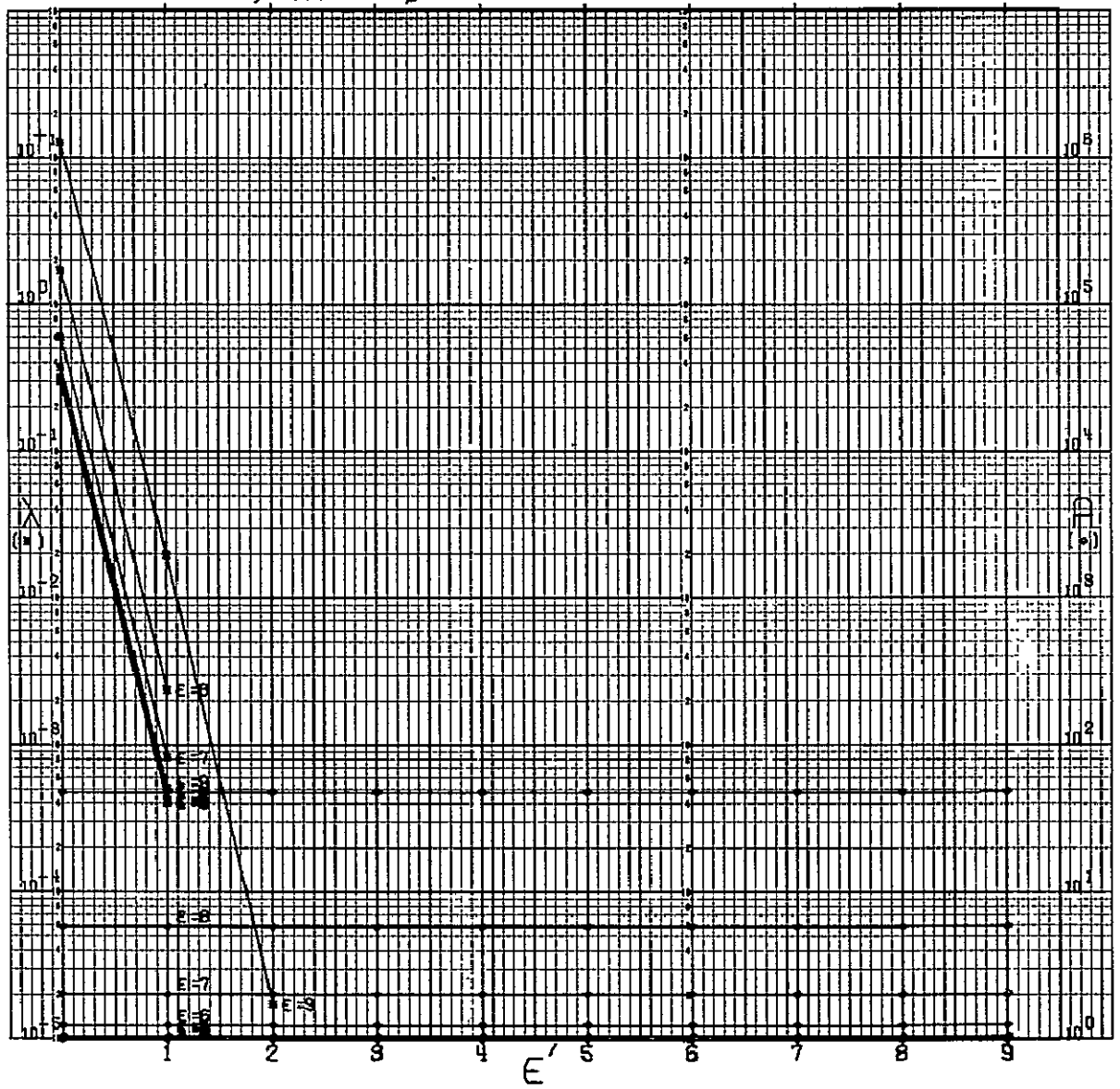
N=29

CODE 111101011100110011010000000
GSFC STANDARD

$\eta = .0001$

$\beta = 100$

(DRAWN BY ROPB, CODE 592, GSFC)



A-707

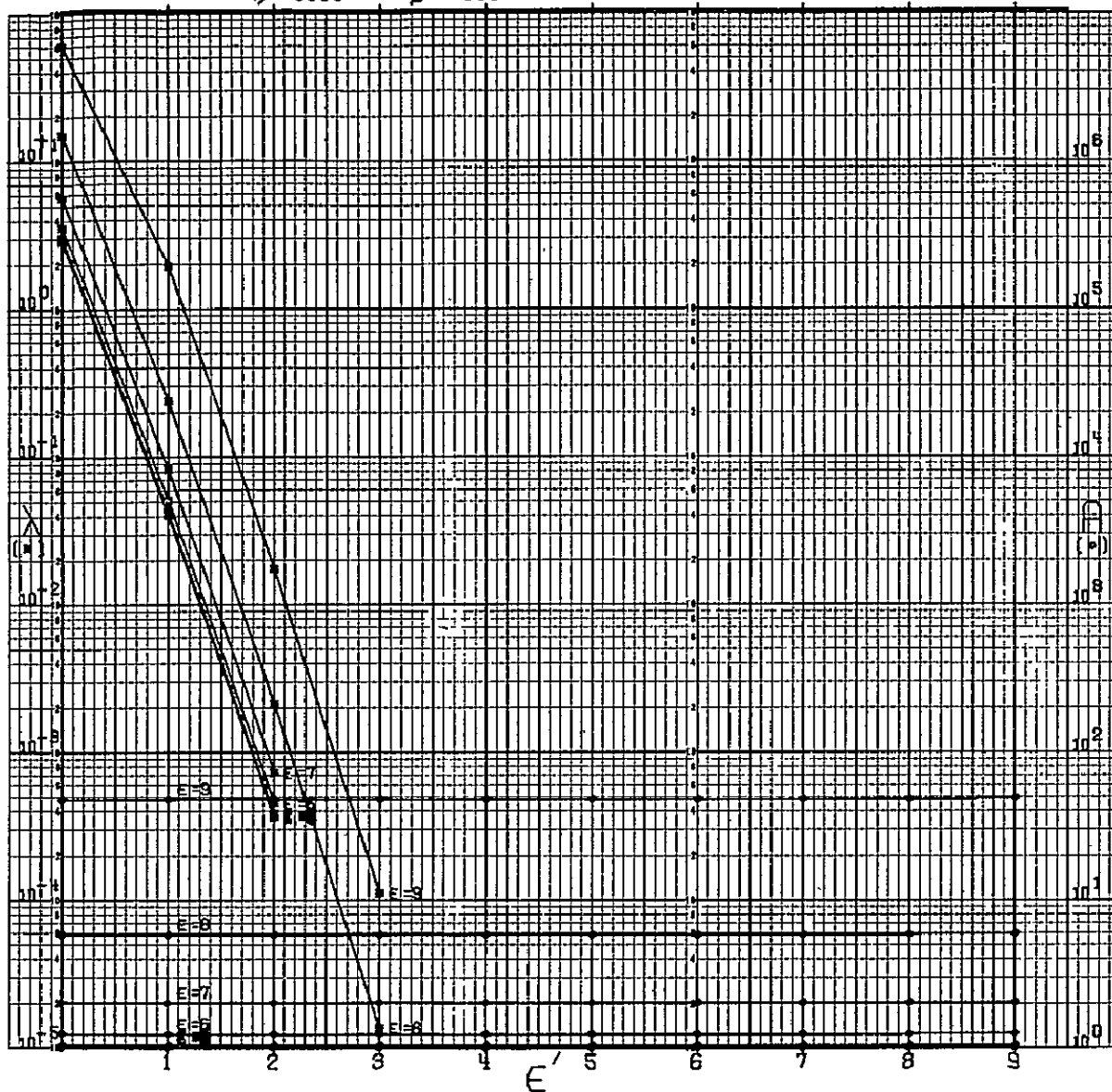
N = 29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ROPE, CODE 542, GSFC)



A-708

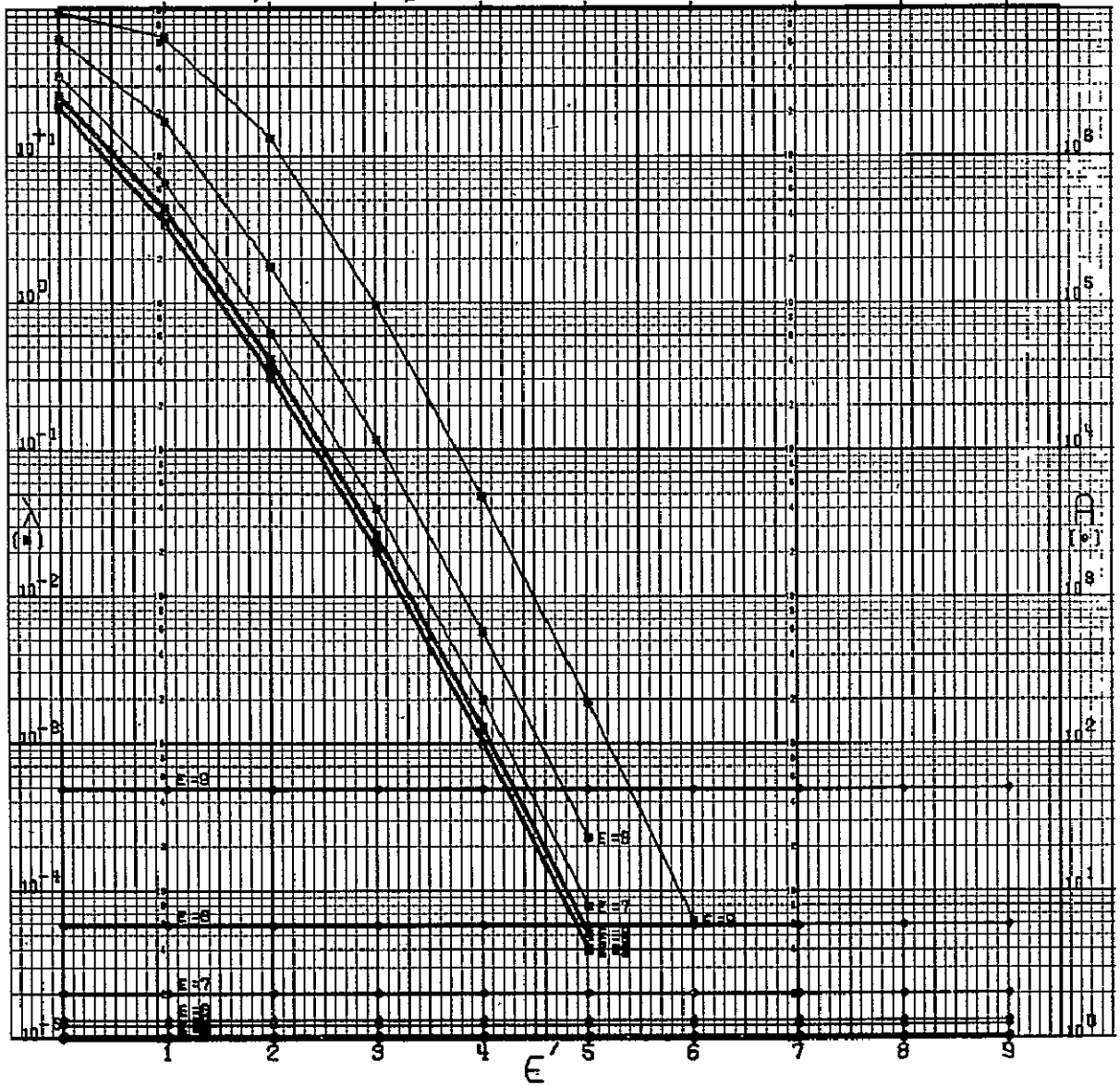
N=29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY ROPB, CODE 512, GSFC)



A-709

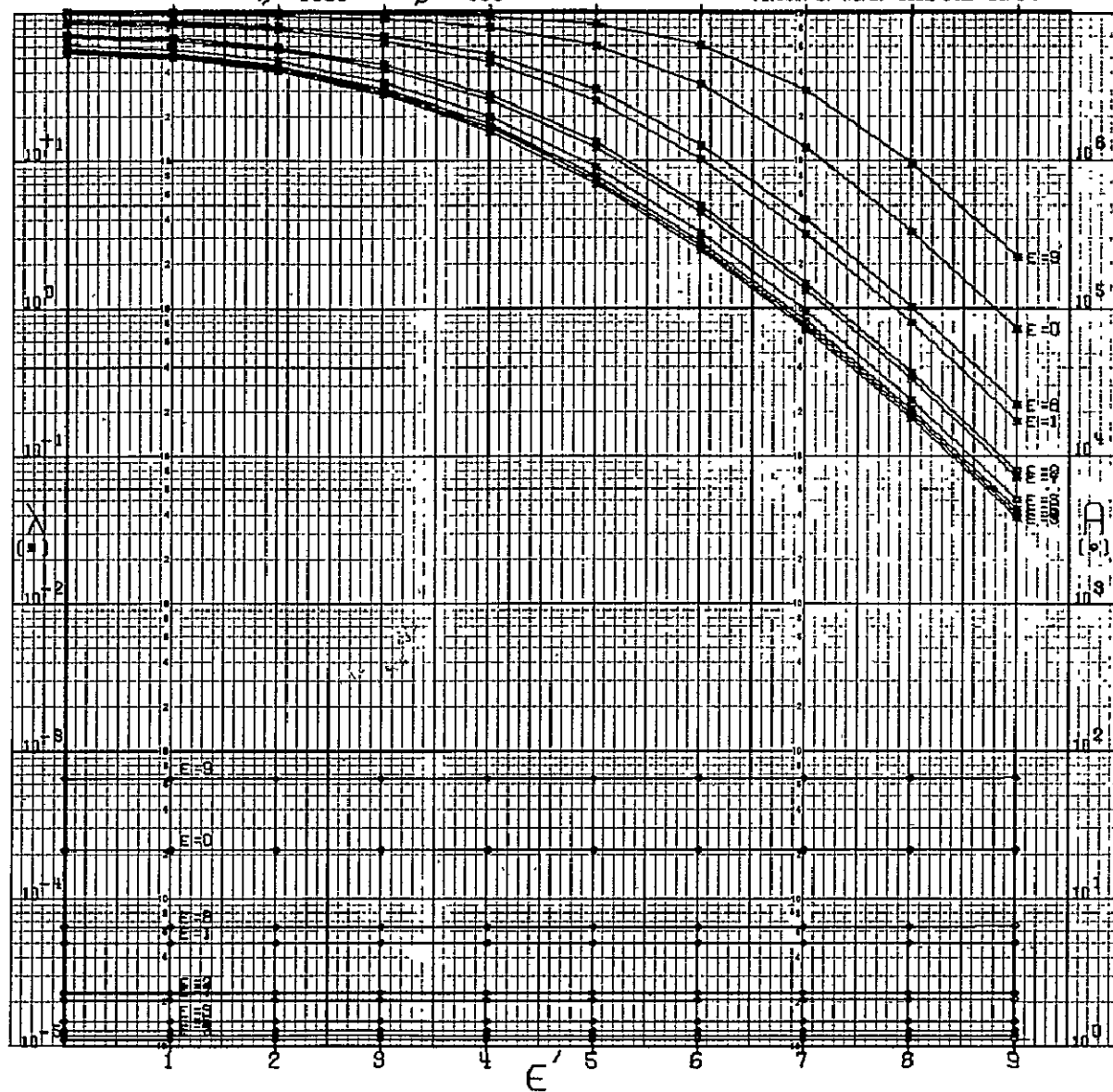
N=29

CODE 111101011100110011010000000
GSFC STANDARD

$\eta = 1000$

$\beta = 100$

(DRAWN BY ROPEL CODE 542 GSFC)



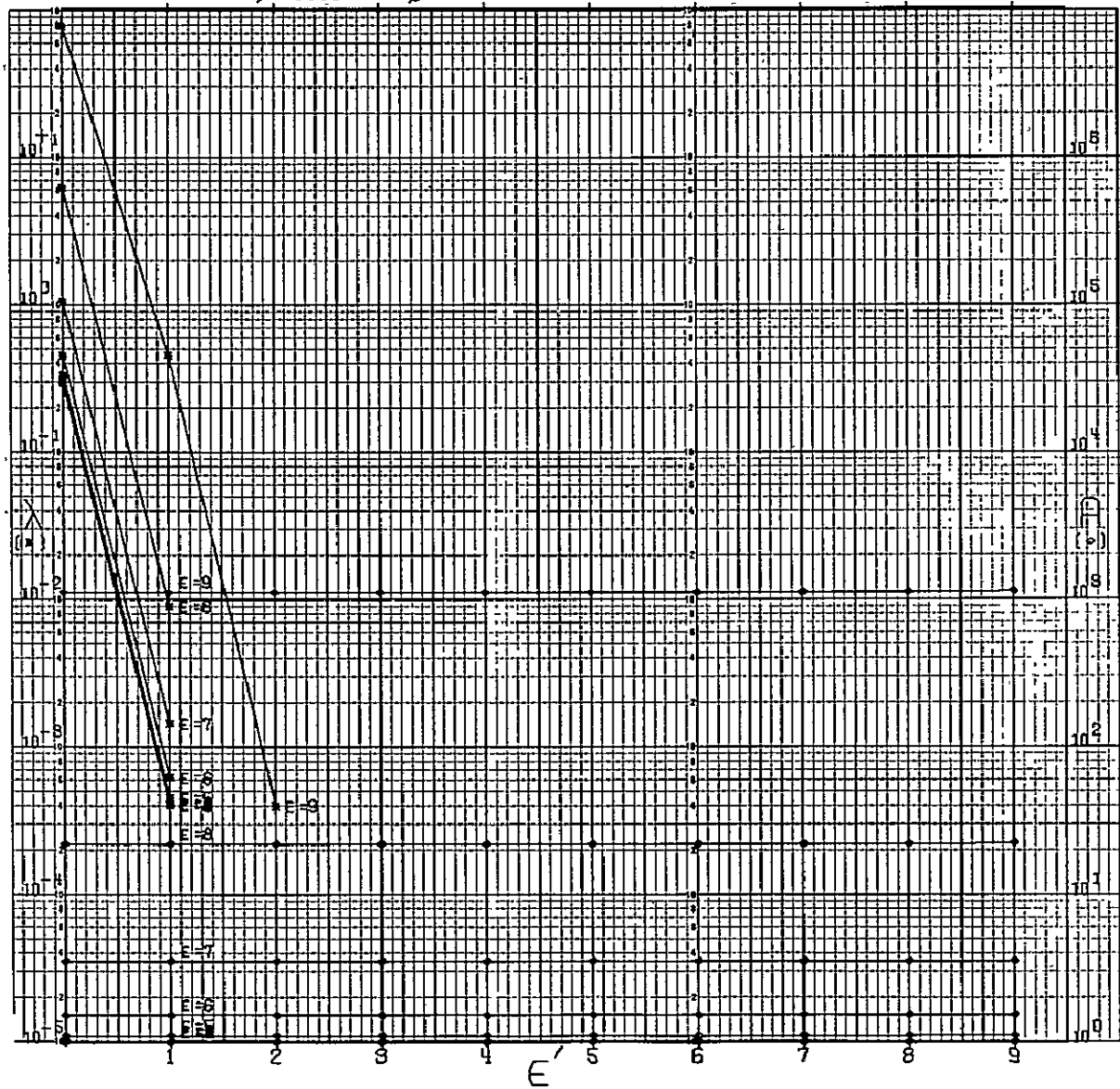
N = 29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = .0001$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



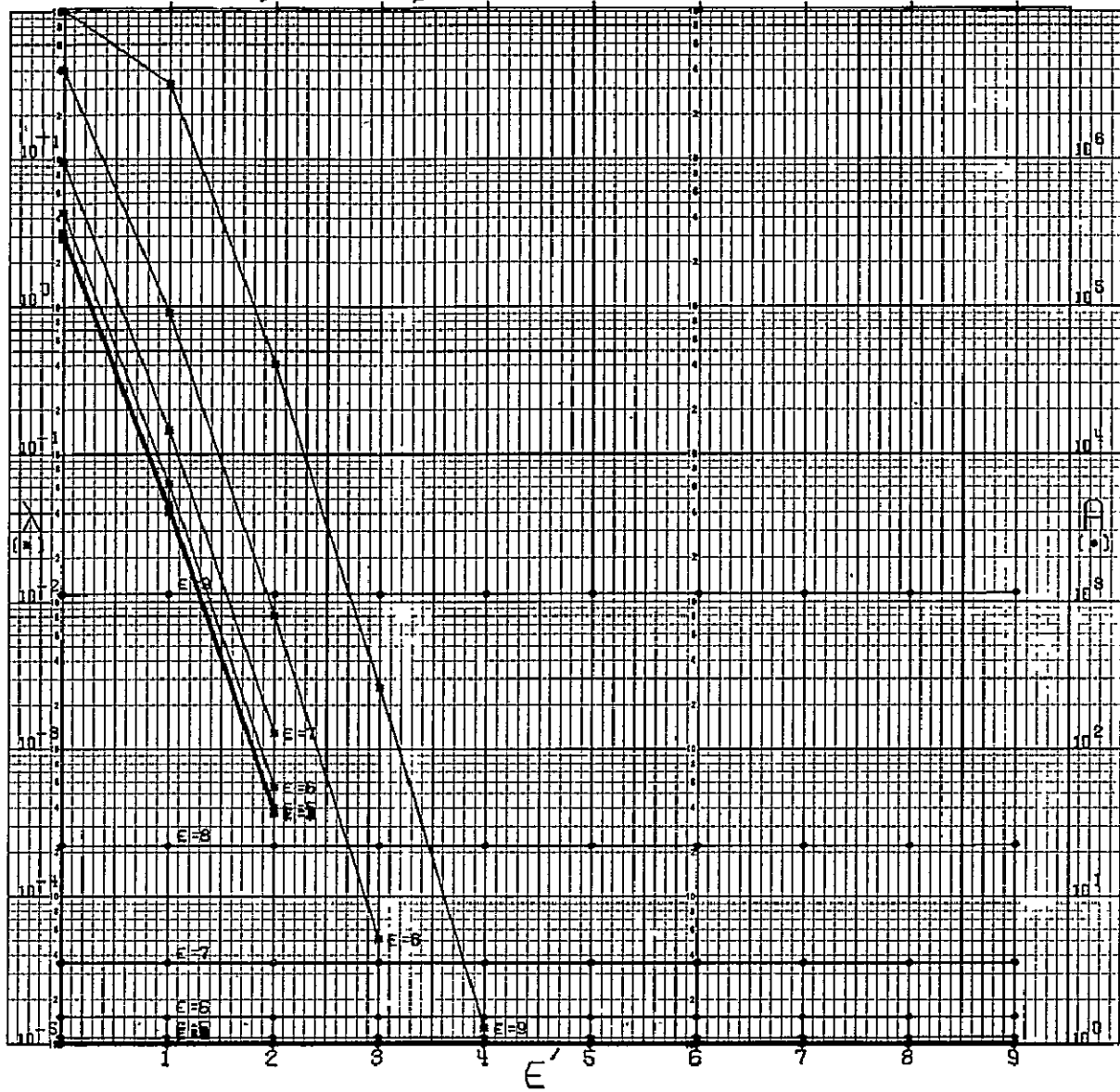
N=29

CODE 111101011100110011010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE-542, GSFC)



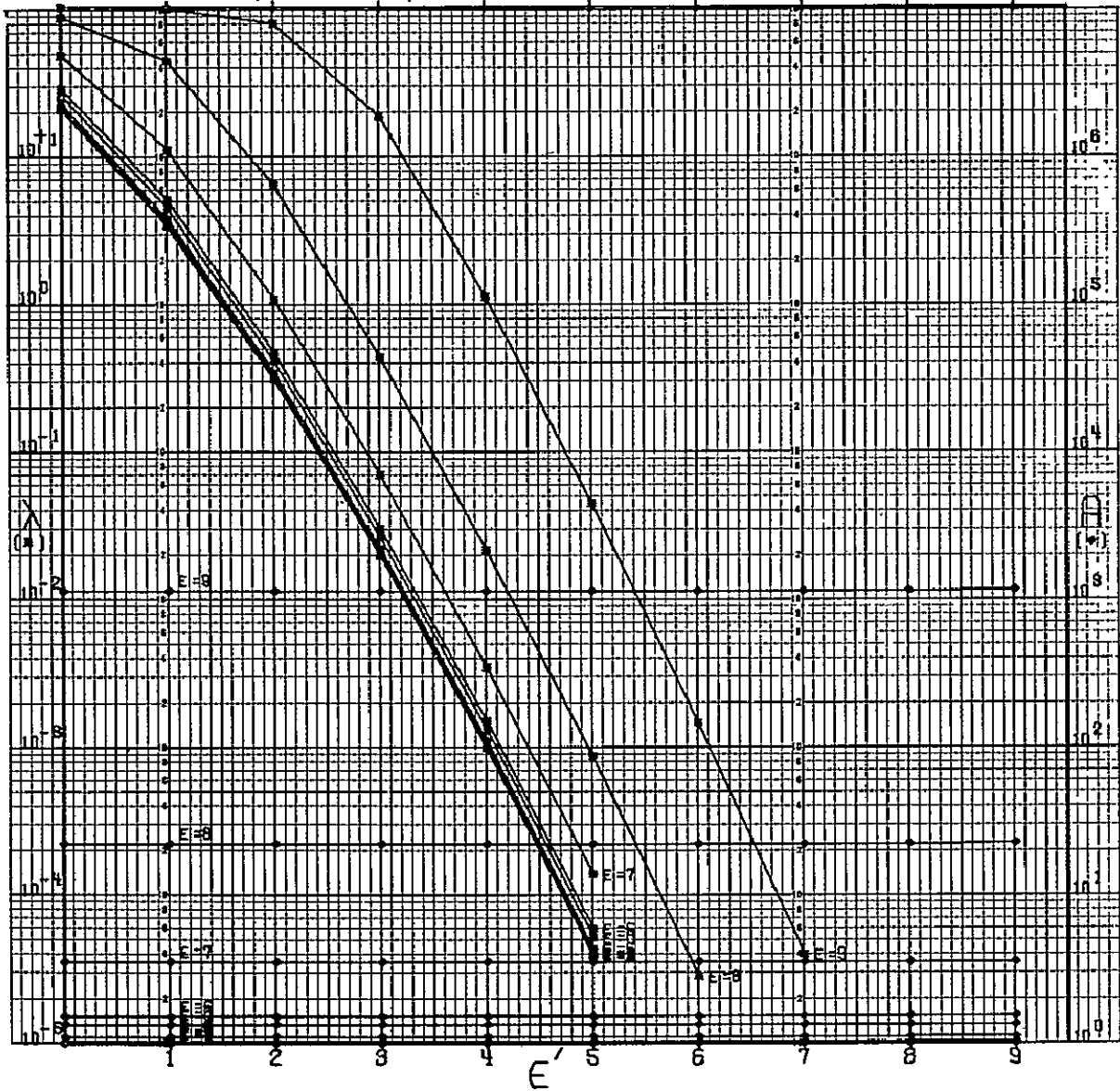
N = 29

CODE 11110101110011001101000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



A-713

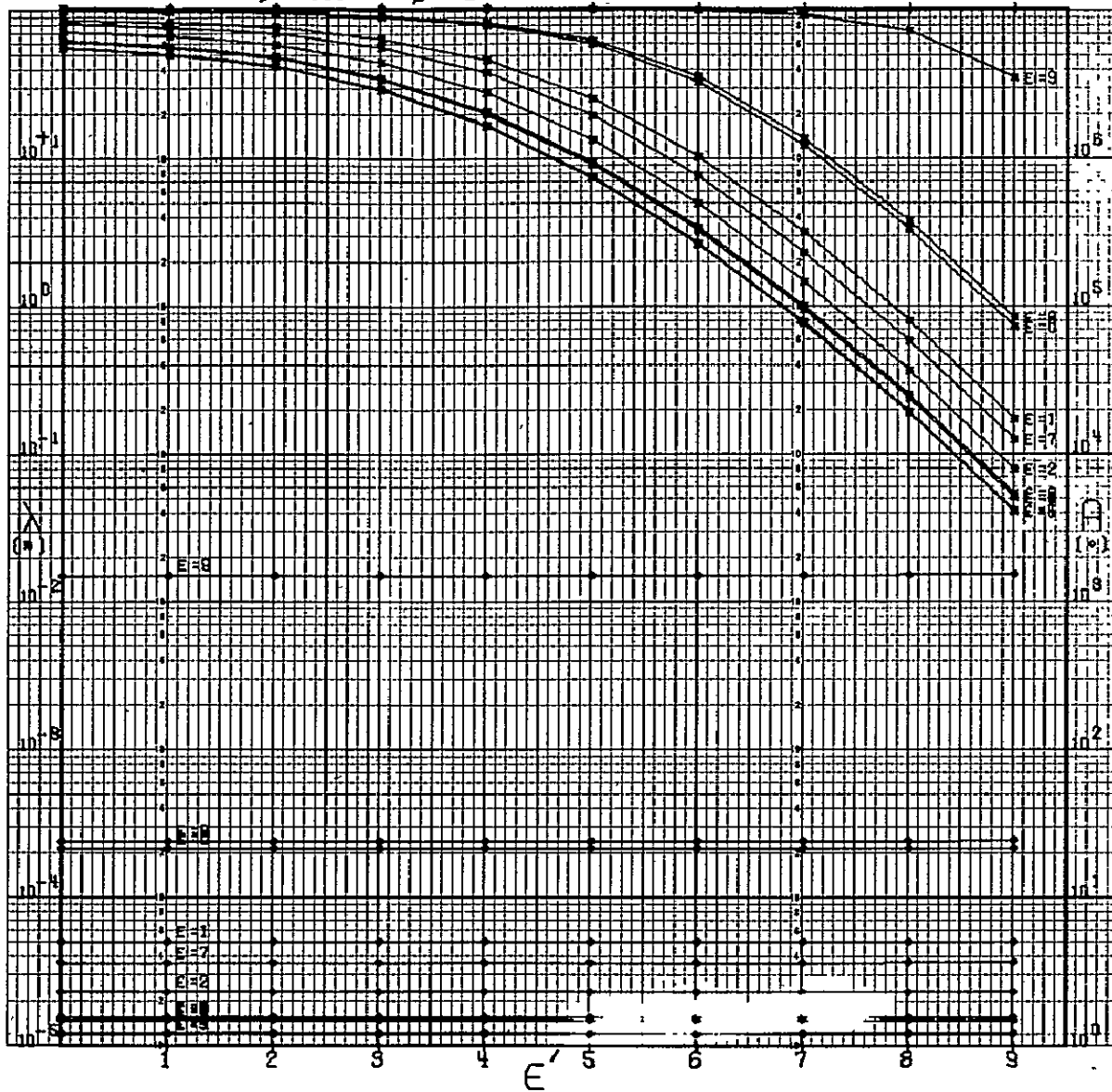
N=29

CODE 111101011100110011010000000
GSFC STANDARD

$\eta = 1000$

$\beta = 200$

(DRAWN BY ROPB, CODE 512, GSFC)



A-714

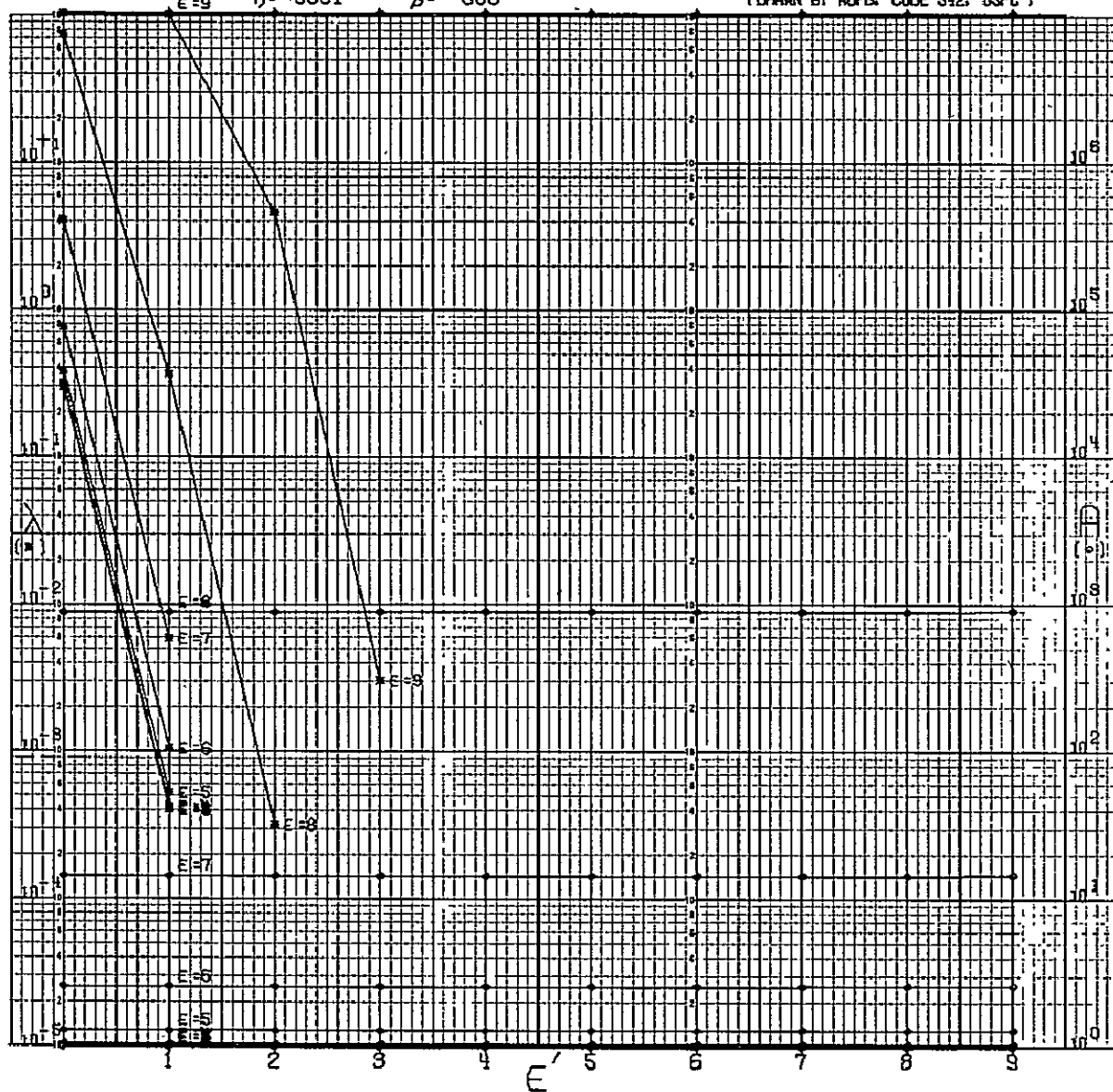
N = 29

CODE 1111010111001100110100000000
GSFC STANDARD

$\eta = 0.0001$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



A-715

N = 29

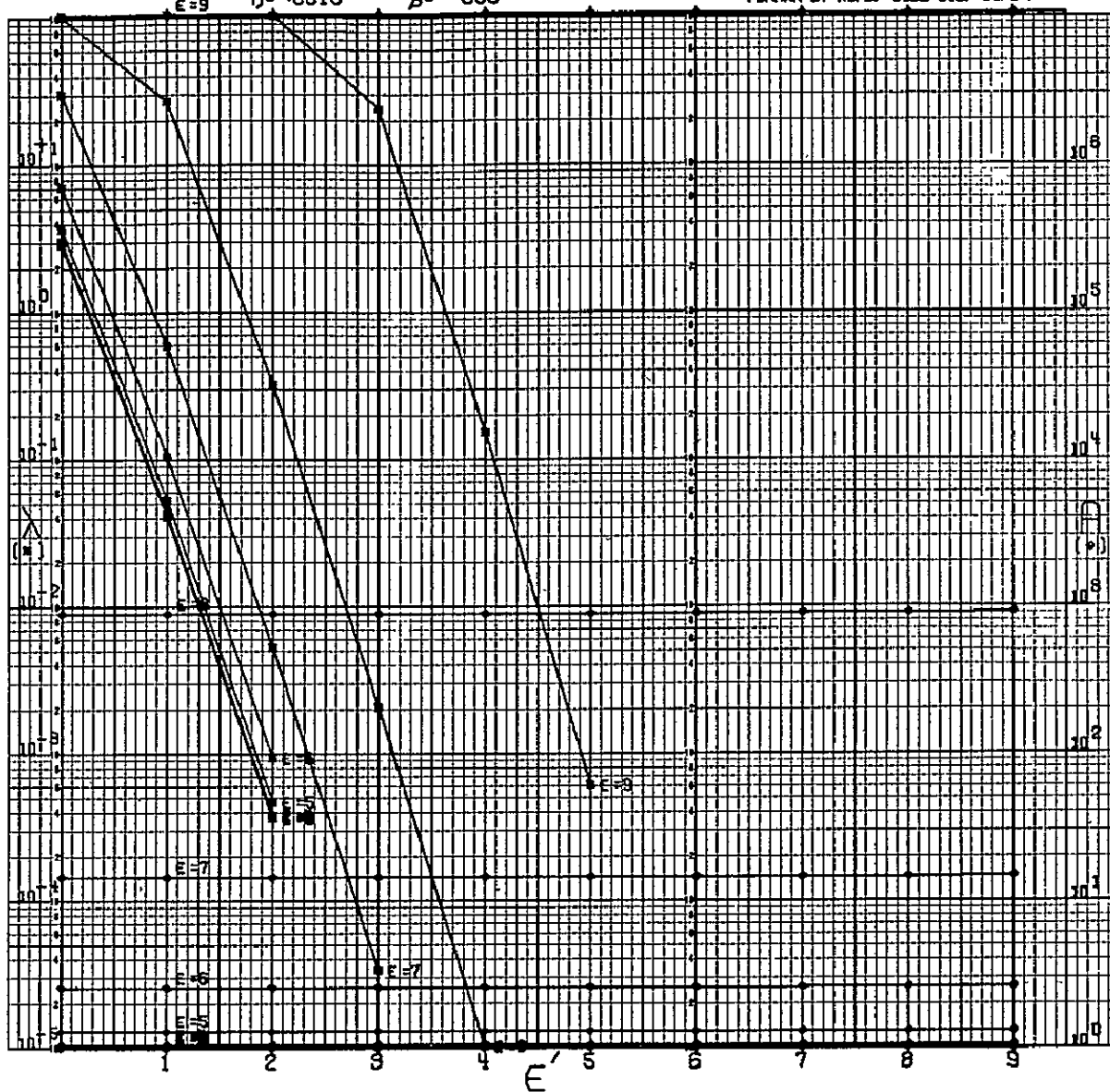
CODE 1111010111100110011010000000

GSFC STANDARD

$\epsilon = 9$ $\eta = .0010$

$\beta = 500$

(DRAWN BY ADPBL CODE 542, GSFC)



N=29

CODE 1111010111100110011010000000

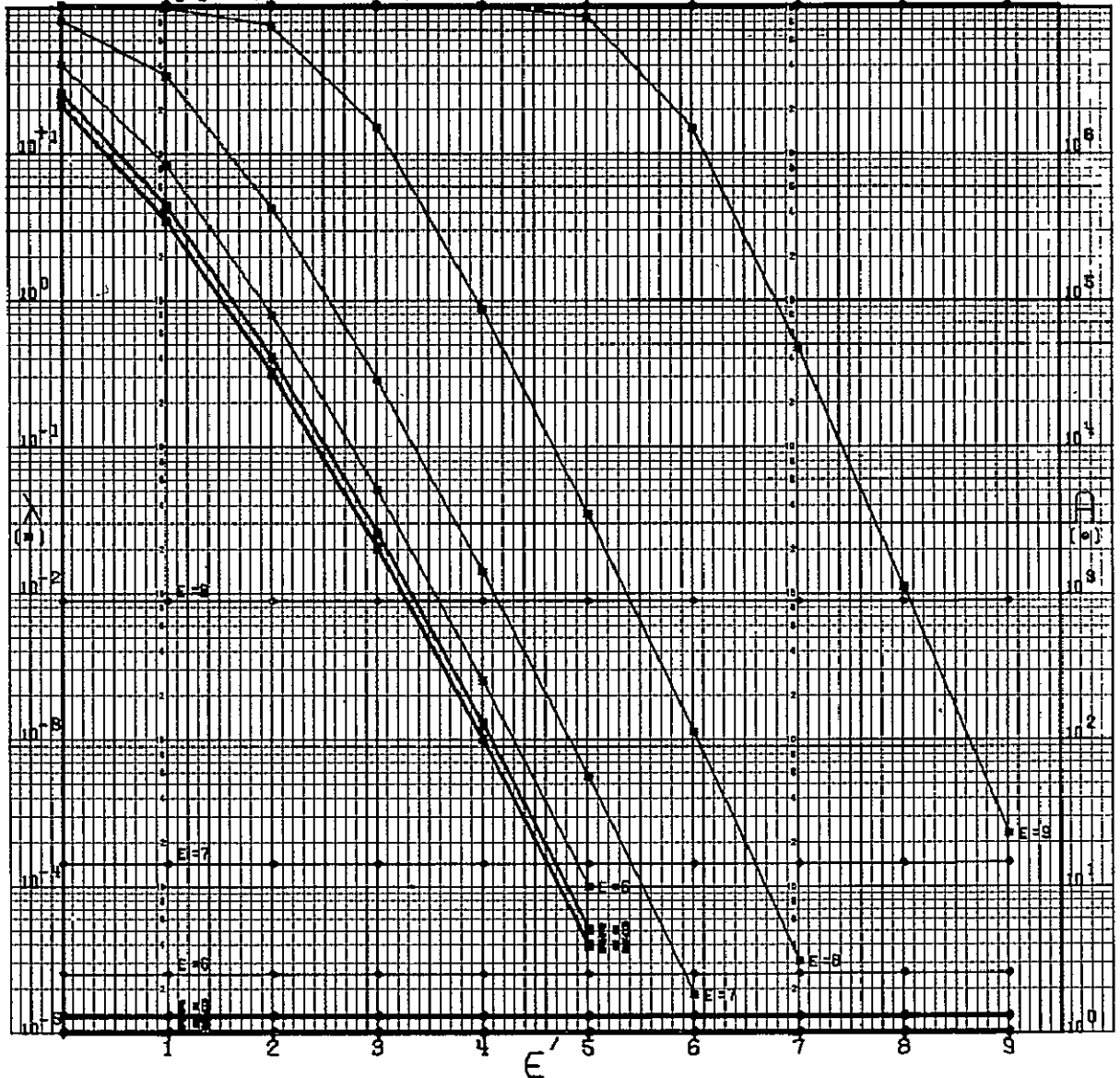
GSFC STANDARD

$\epsilon = 9$

$\eta = .0100$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



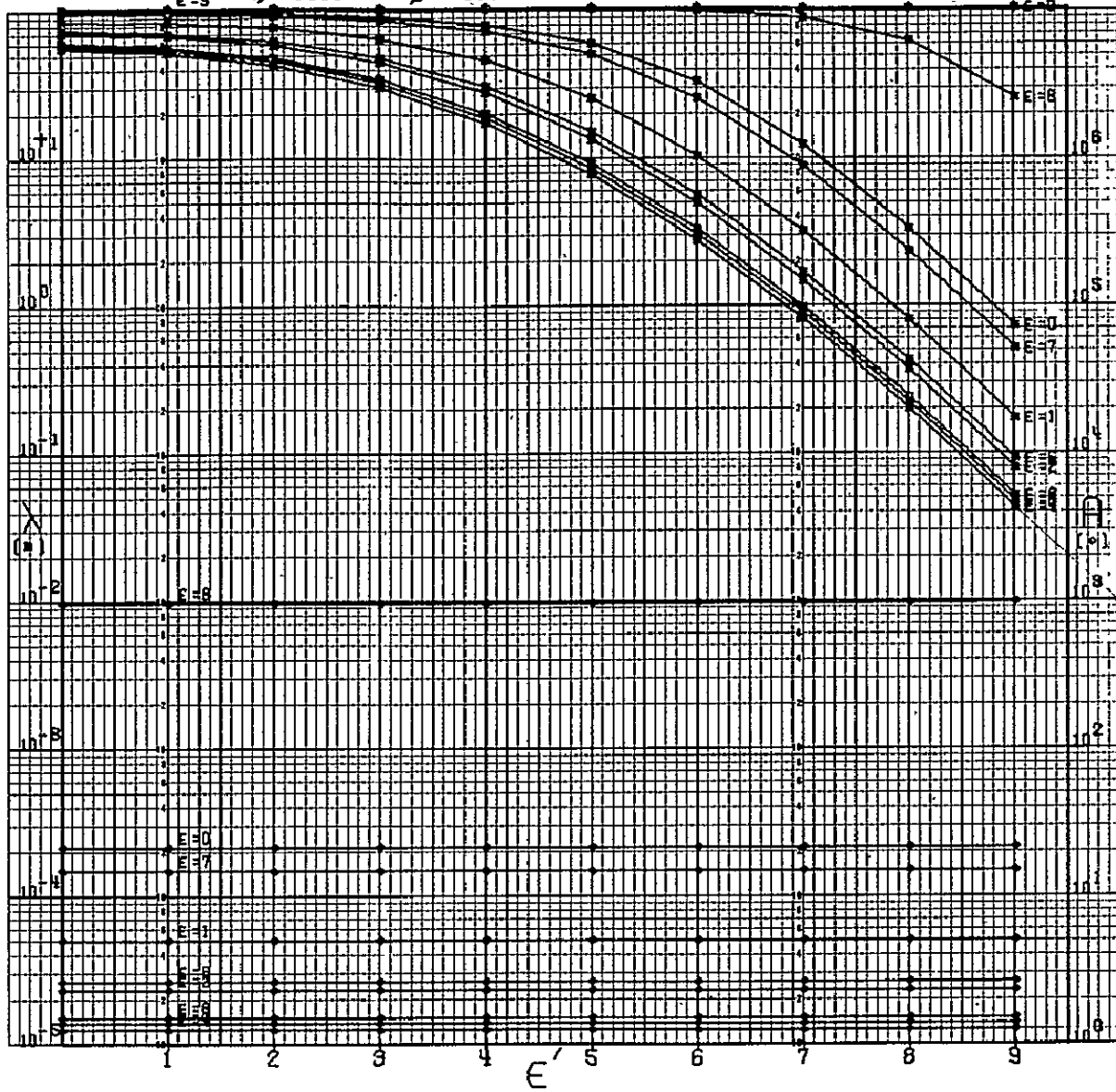
A-717

N=29

CODE 1111010111100110911010000000
GSFC STANDARD

$\epsilon = 9$ $\eta = 1000$ $\beta = 500$

(DRAWN BY AOPB, CODE 542, GSFC)



N = 29

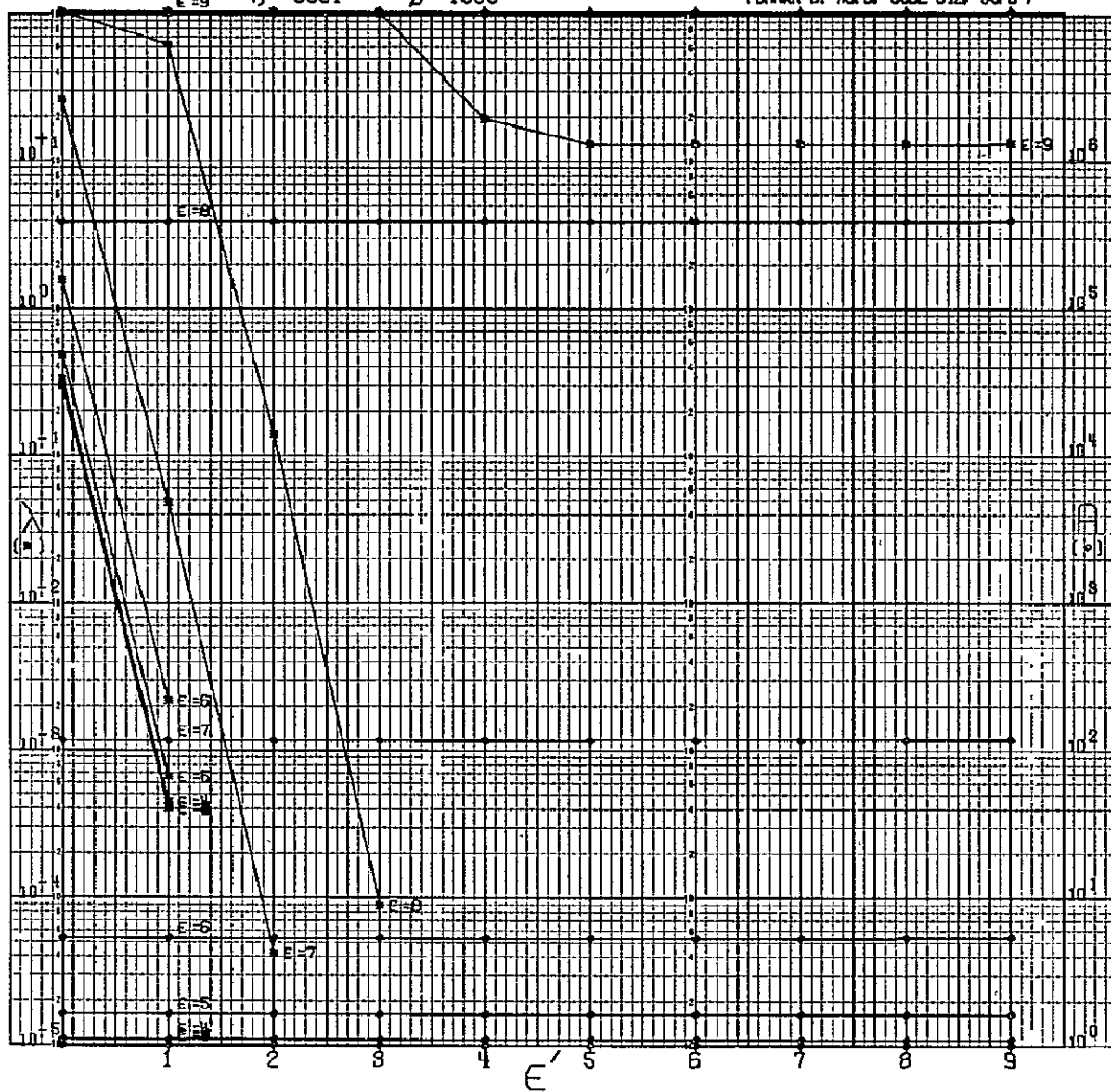
CODE 1111010111100110011010000000

GSFC STANDARD

$\epsilon = 9$ $\eta = .0001$

$\beta = 1000$

(DRAWN BY ROPB. CODE 542. GSFC)



N = 29

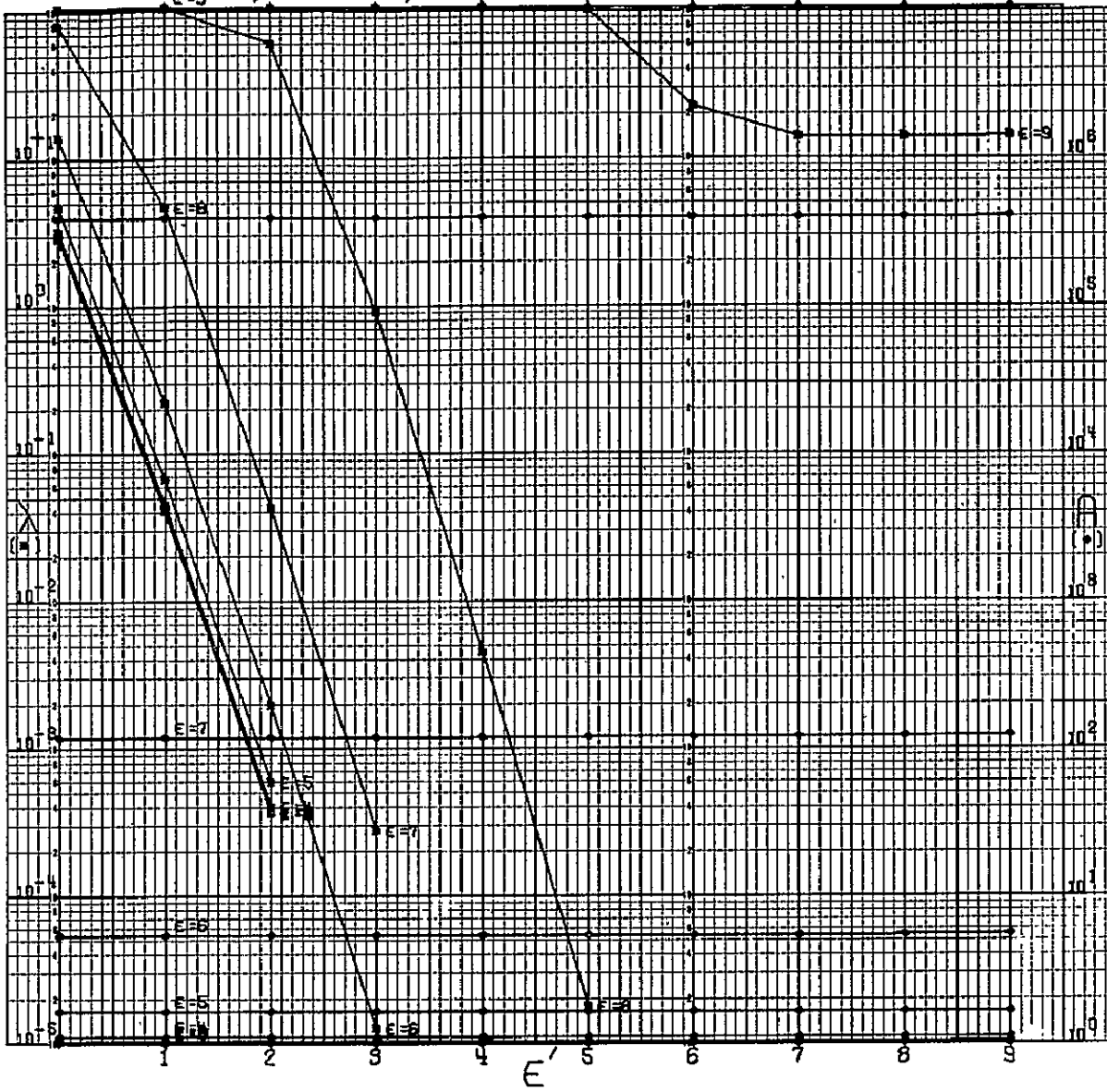
CODE 1111010111100110011010000000

GSFC STANDARD

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-720

N=29

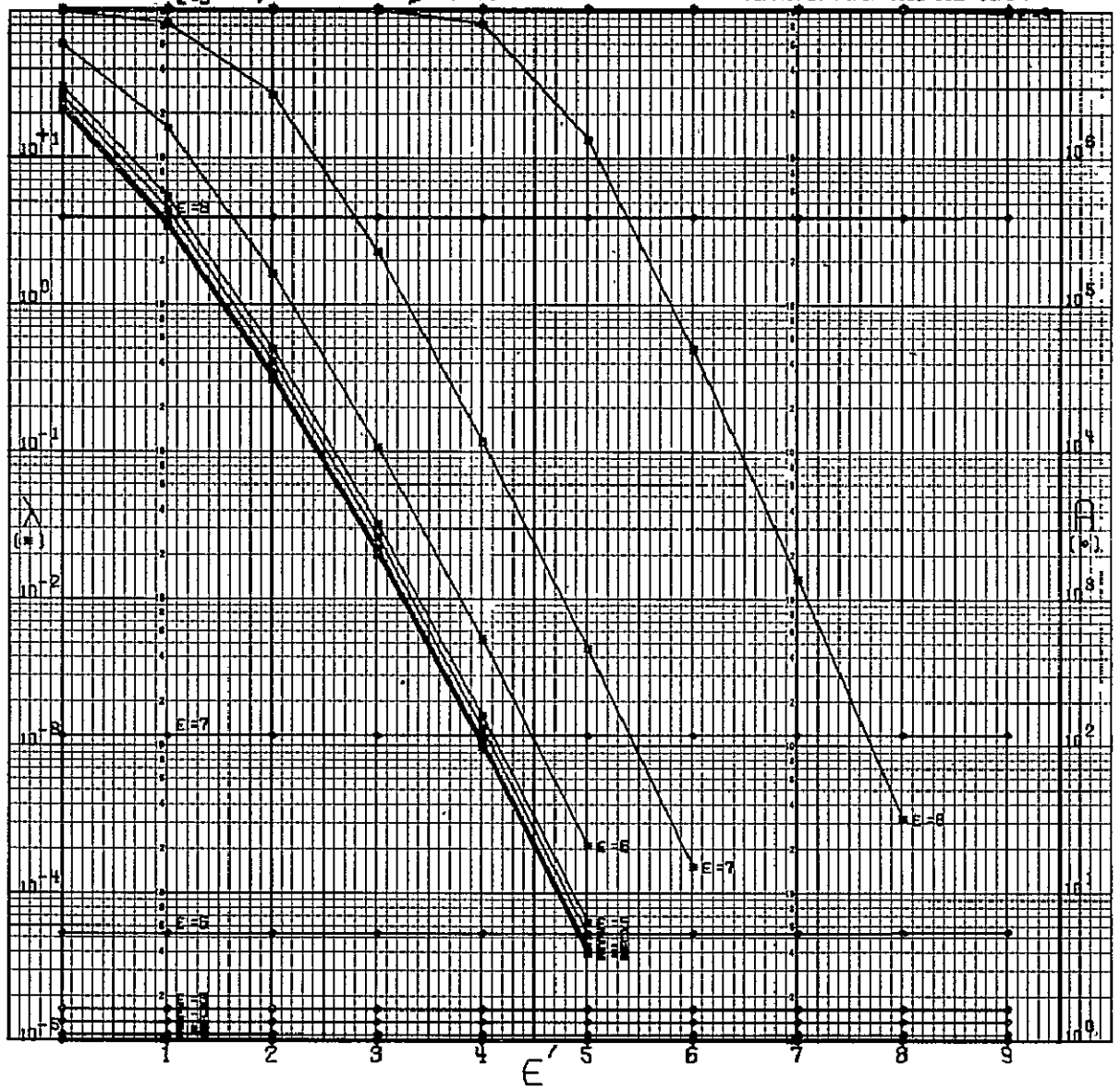
CODE 1111010111100110011010000000

GSFC STANDARD

$\epsilon = 9$ $\eta = 0.100$

$\beta = 1000$

(DRAWN BY ROPB, CODE 612, GSFC)



N=29

CODE 1111010111100110011010000000

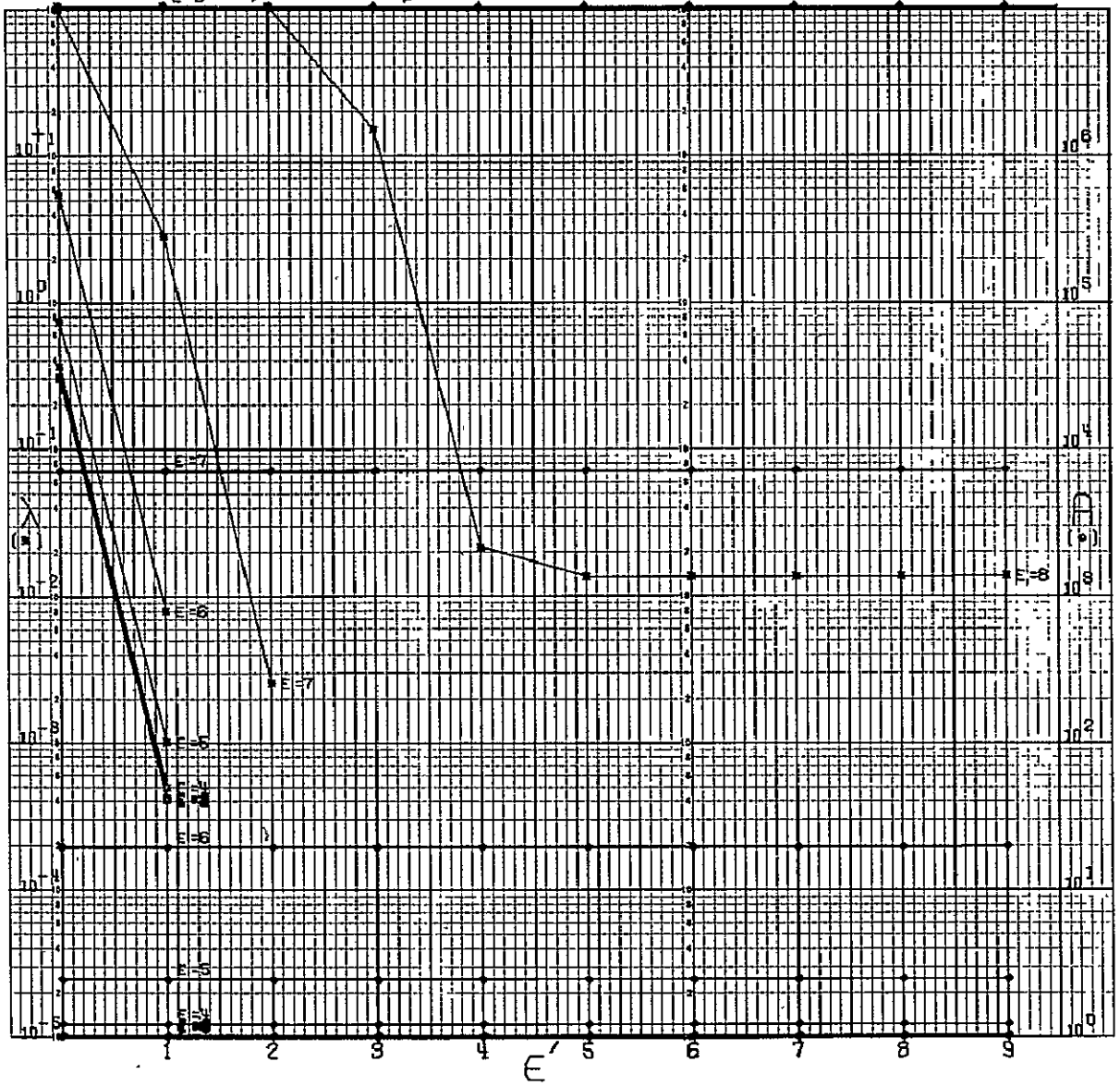
GSFC STANDARD

$\epsilon = 6$

$\eta = 0.0001$

$\beta = 2000$

(DRAWN BY AOP6, CODE 542, GSFC)



N=29

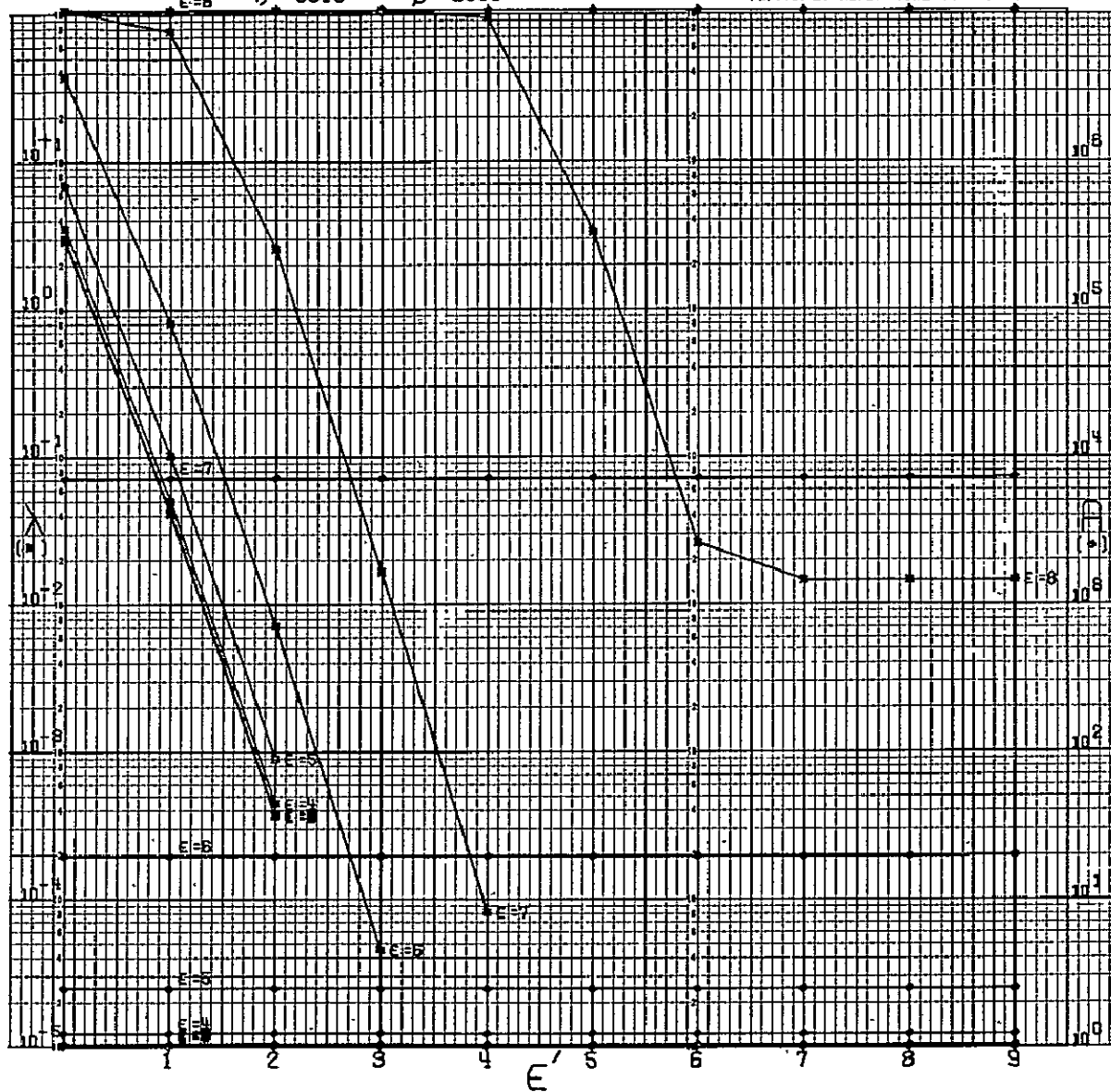
CODE 1111010111100110011010000000

GSFC STANDARD

$\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-724

N = 29

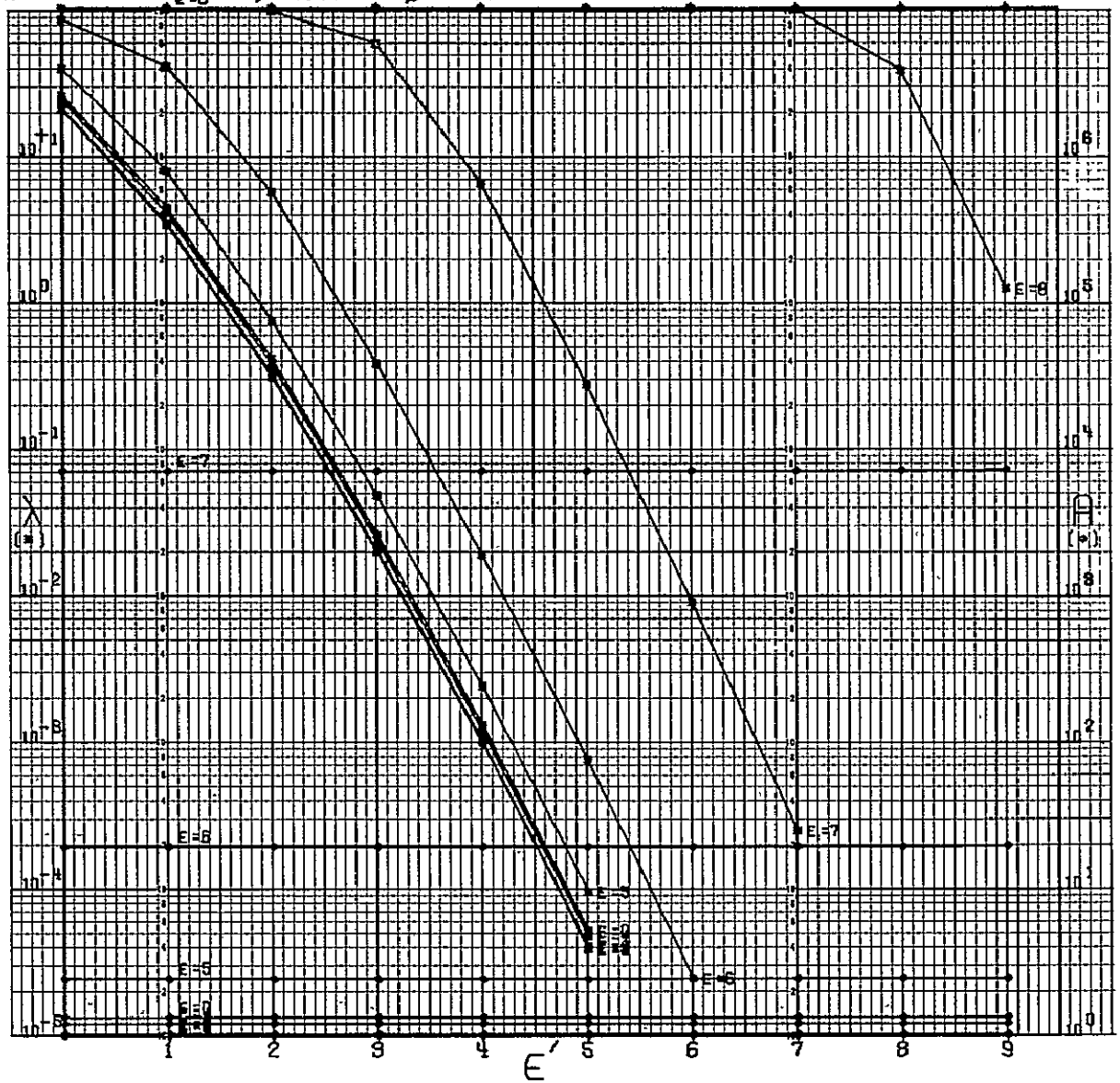
CODE 111101011100110011010000000

GSFC STANDARD

$\eta = 0.100$

$\beta = 2000$

(DRAWN BY ROPEL CODE 542, GSFC)



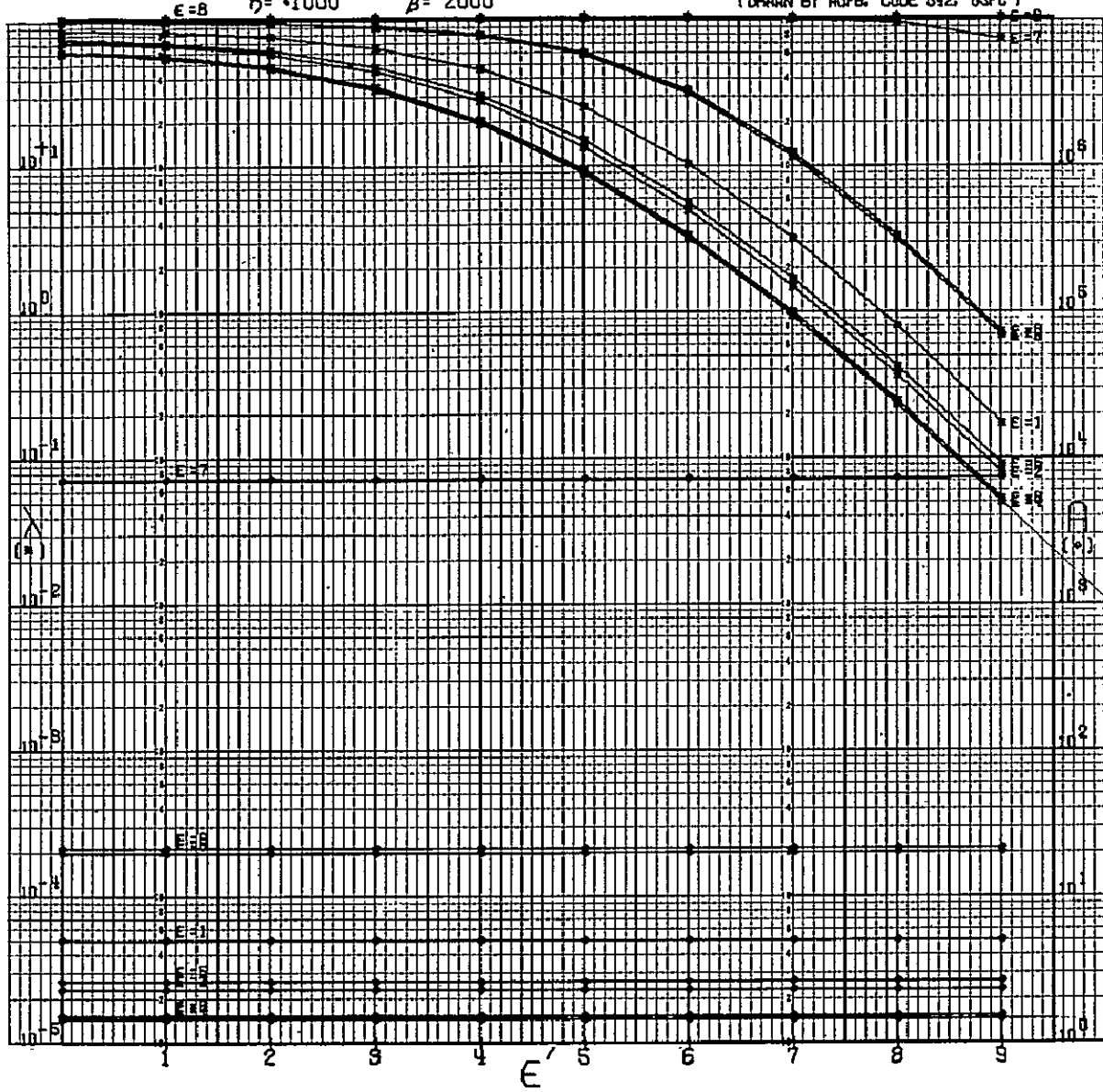
N = 29

CODE 111101011100110011010000000
GSFC STANDARD

$\eta = 1000$

$\beta = 2000$

(DRAWN BY ASPB, CODE 542, GSFC)

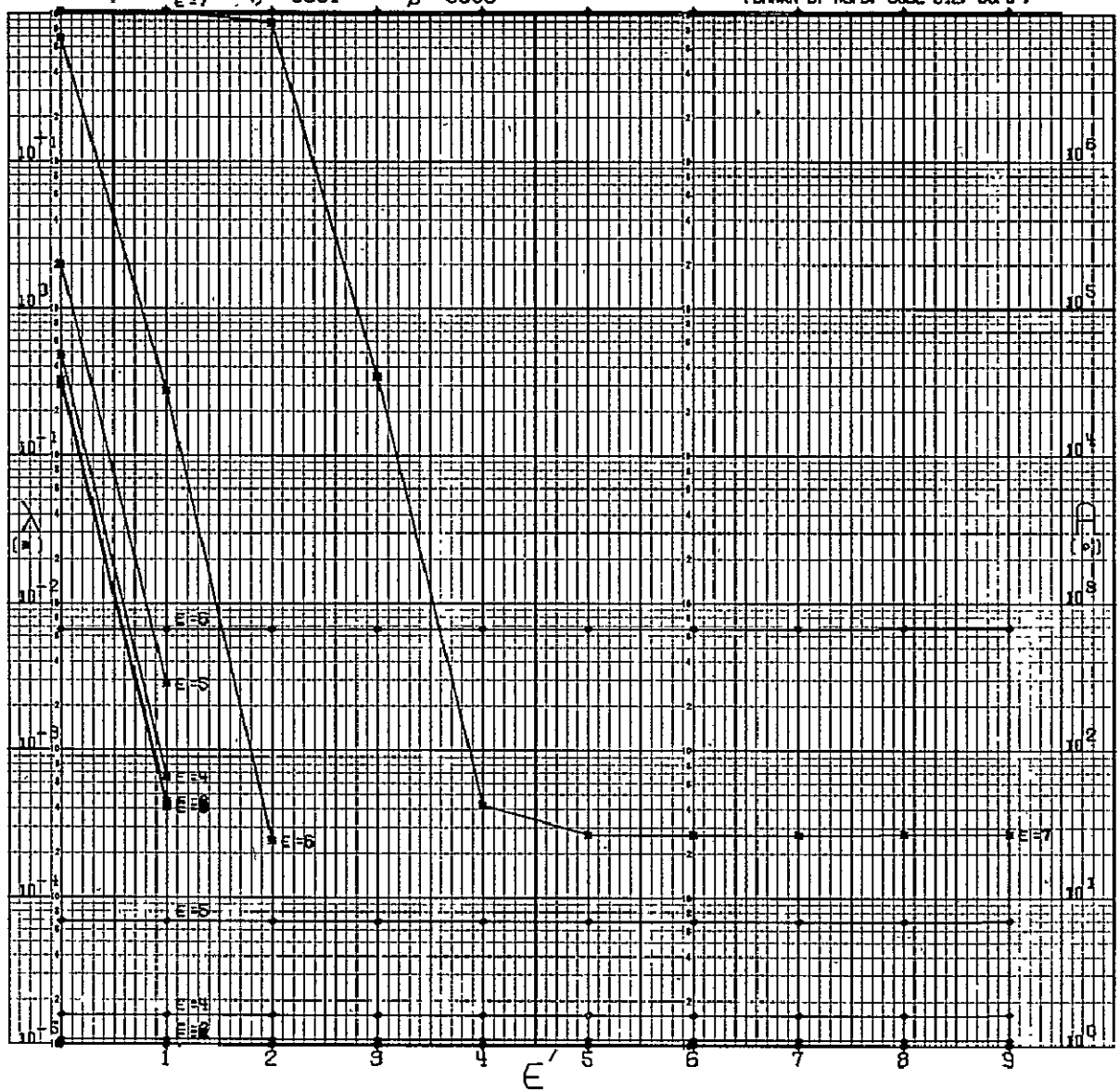


N = 29

CODE 111101011100110011010000000
GSFC STANDARD

$\epsilon = 7$ $\eta = .0001$ $\beta = 5000$

(DRAWN BY ROPE, CODE 512, GSFC)



A-727

N = 29

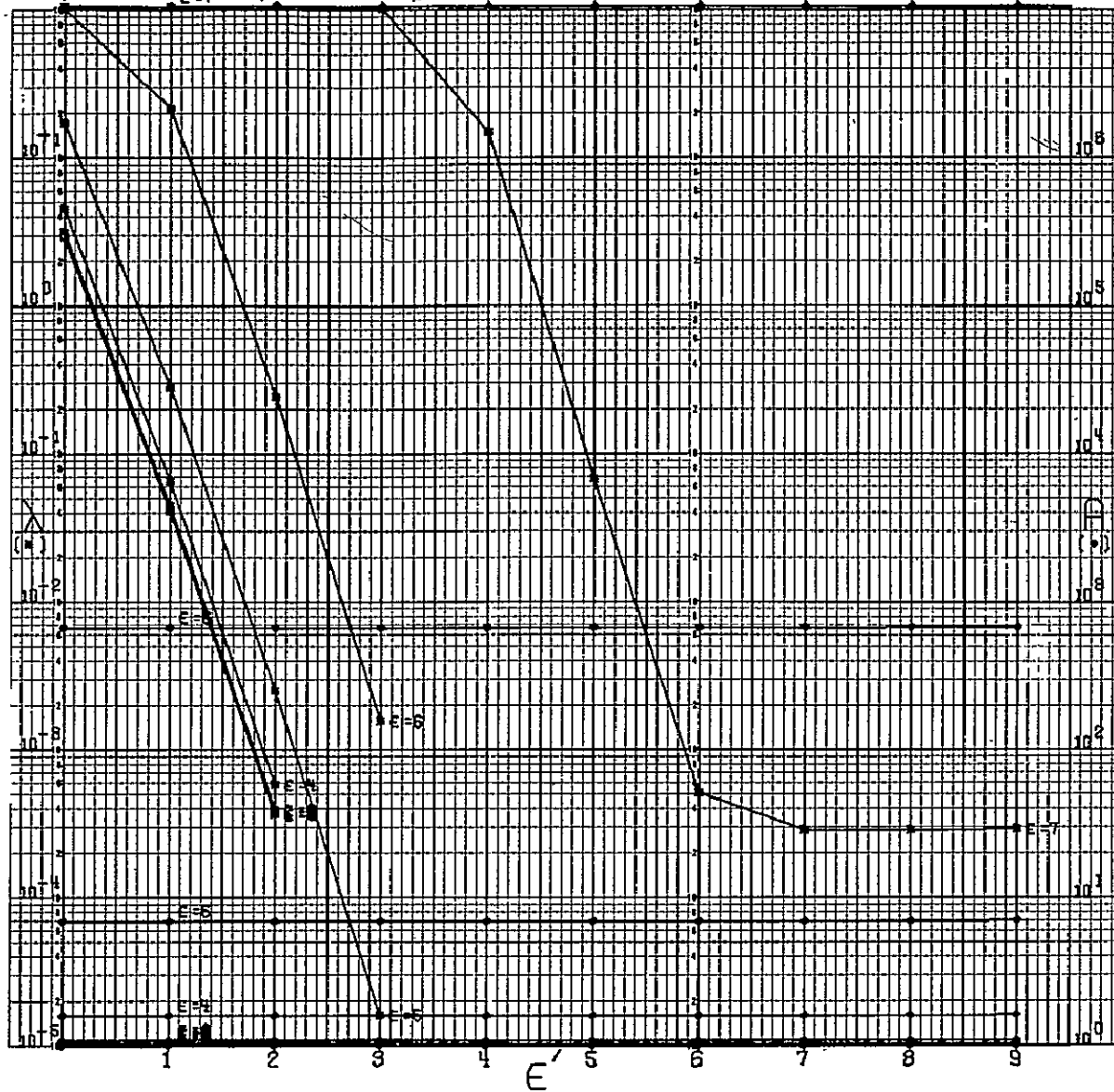
CODE 1111010111100110011010000000

GSFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY ROFB. CODE 512. GSFC)



N=29

CODE 1111010111100110011010000000

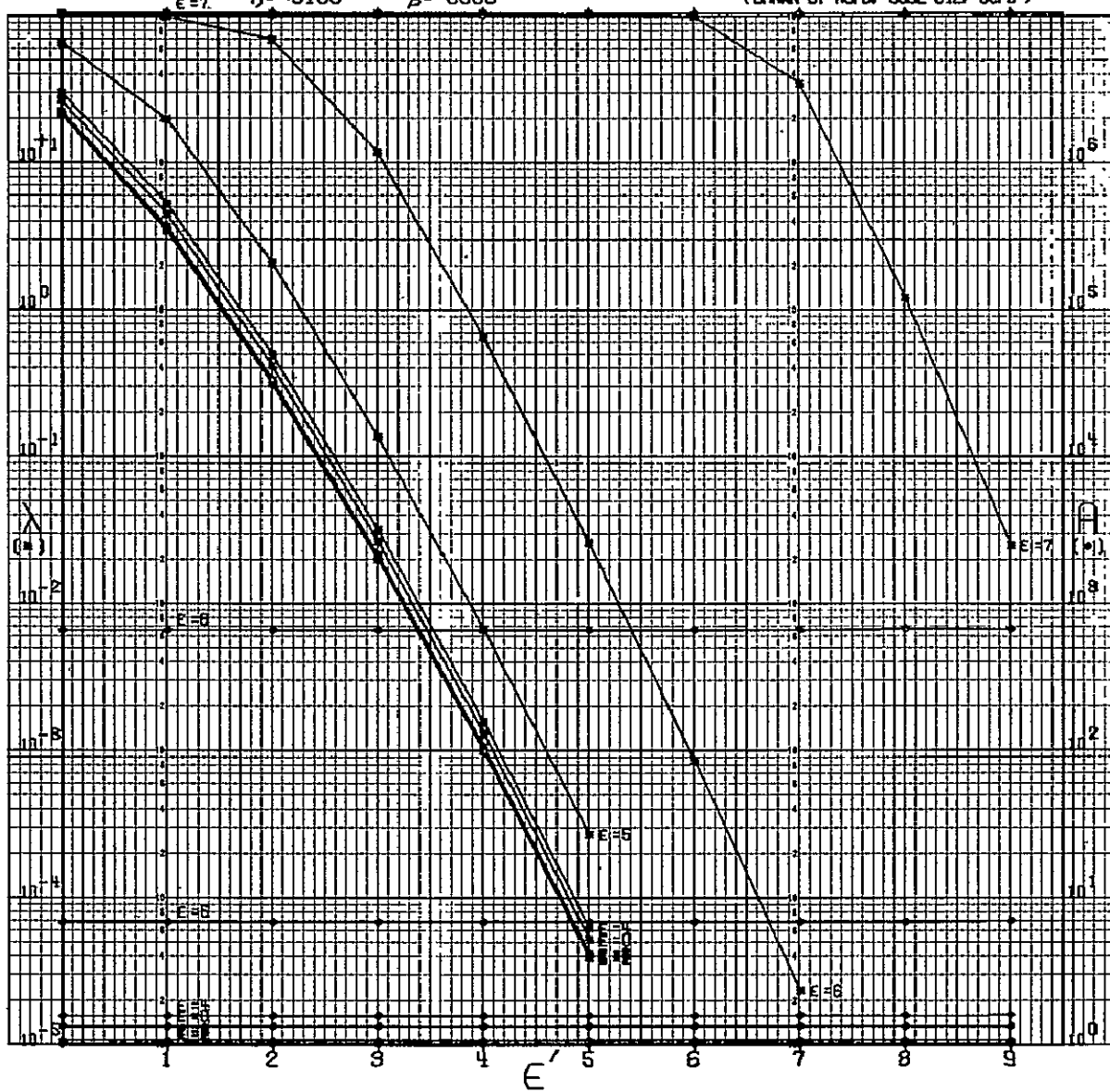
GSFC STANDARD

$\epsilon = 7$

$\eta = -0.100$

$\beta = 5000$

(DRAWN BY ROPB, CODE-542, GSFC)



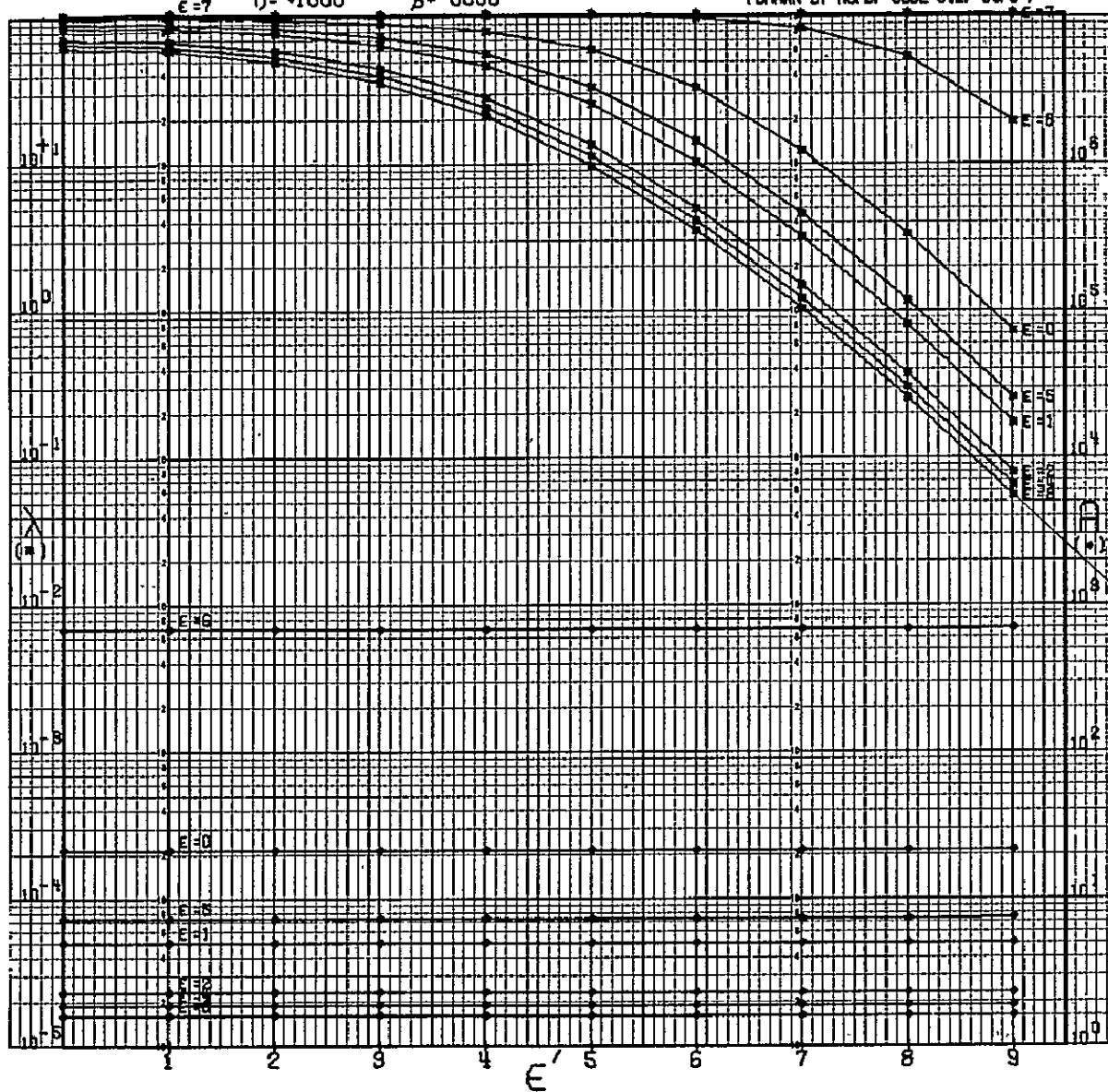
N=29

CODE 1111010111300110011010000000
GSFC STANDARD

$\eta = +1000$

$\beta = 5000$

(DRAWN BY ROPB, CODE 542, GSFC)



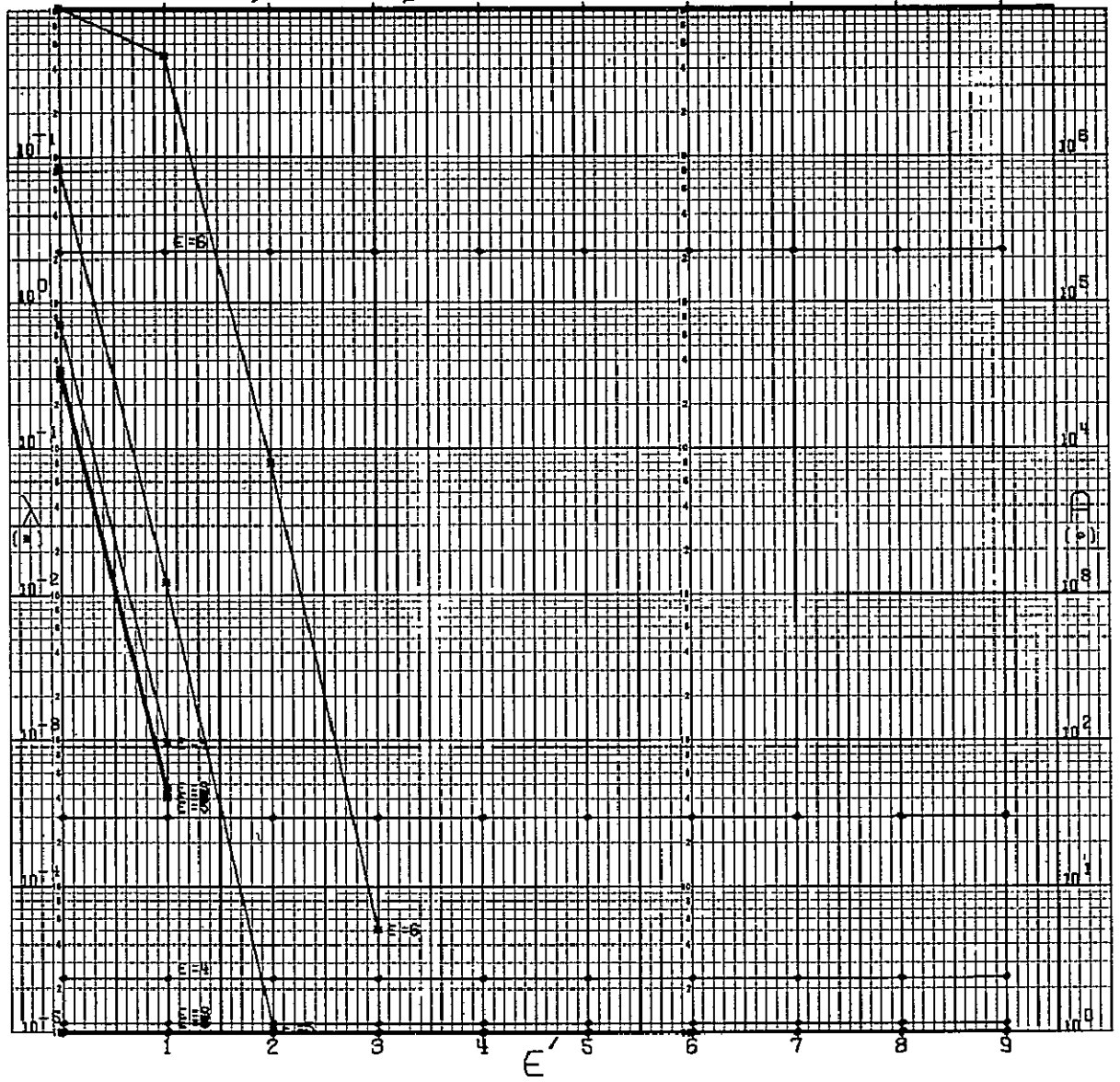
N=29

CODE 11110101110011001101000000
GSFC STANDARD

$\eta = +0001$

$\beta = 10000$

(DRAWN BY ACPL CODE 542, GSFC)



A-731

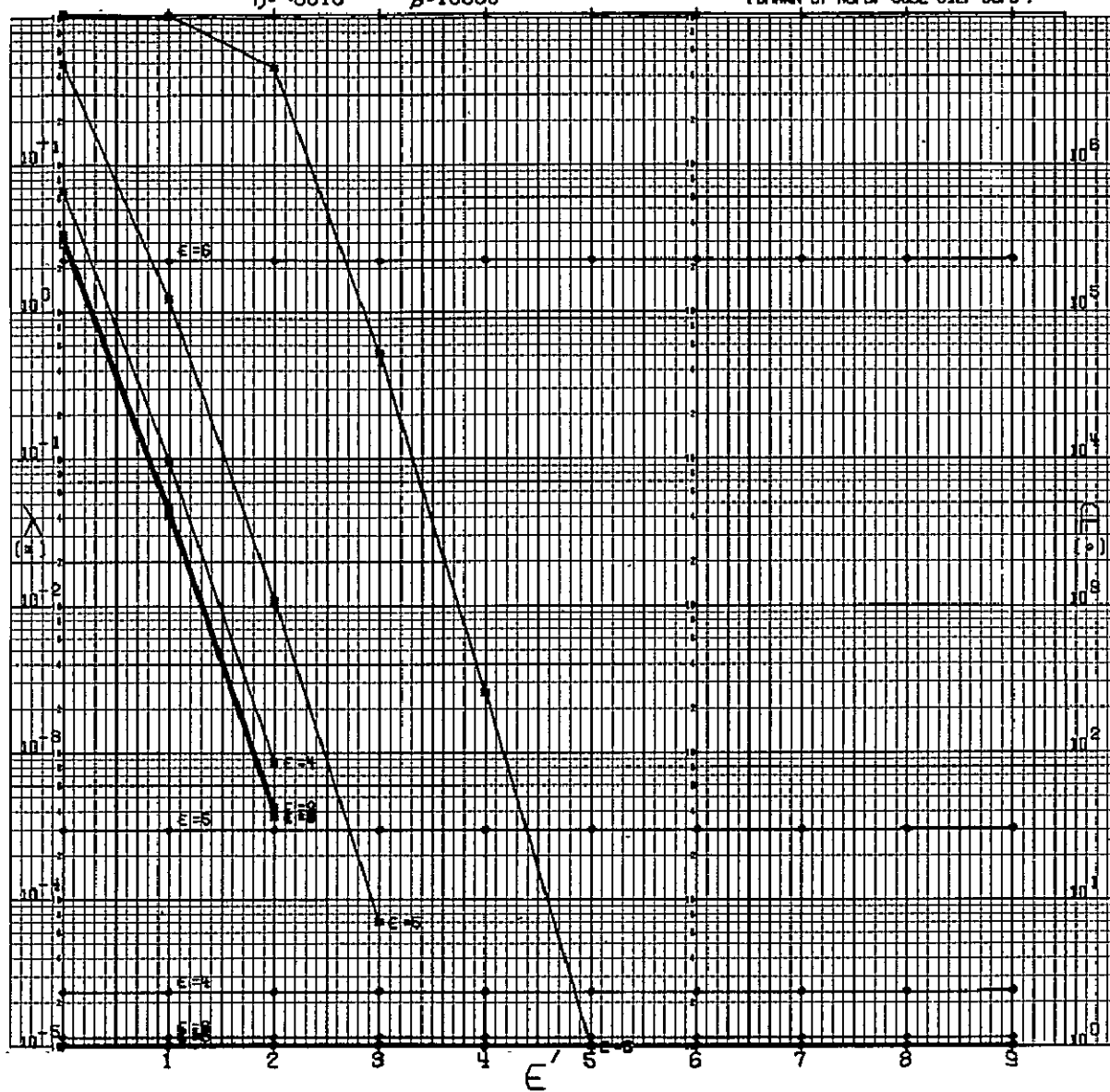
N=29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 10000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-732

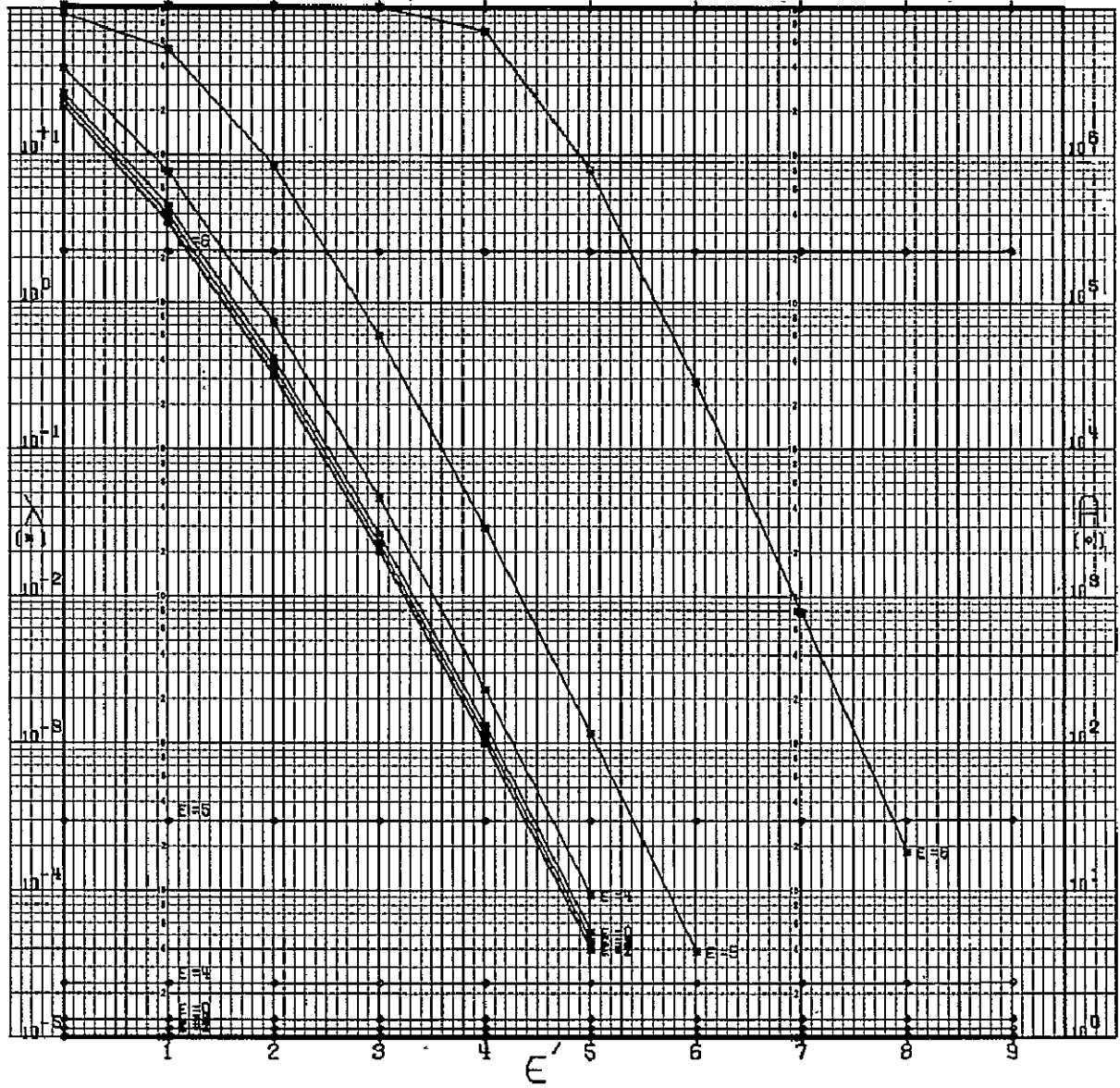
N=29

CODE 1111010111100110011010000000
GSFC STANDARD

$\sigma = 0.100$

$\beta = 10000$

(DRAWN BY ROFB, CODE 512, GSFC)



N=29

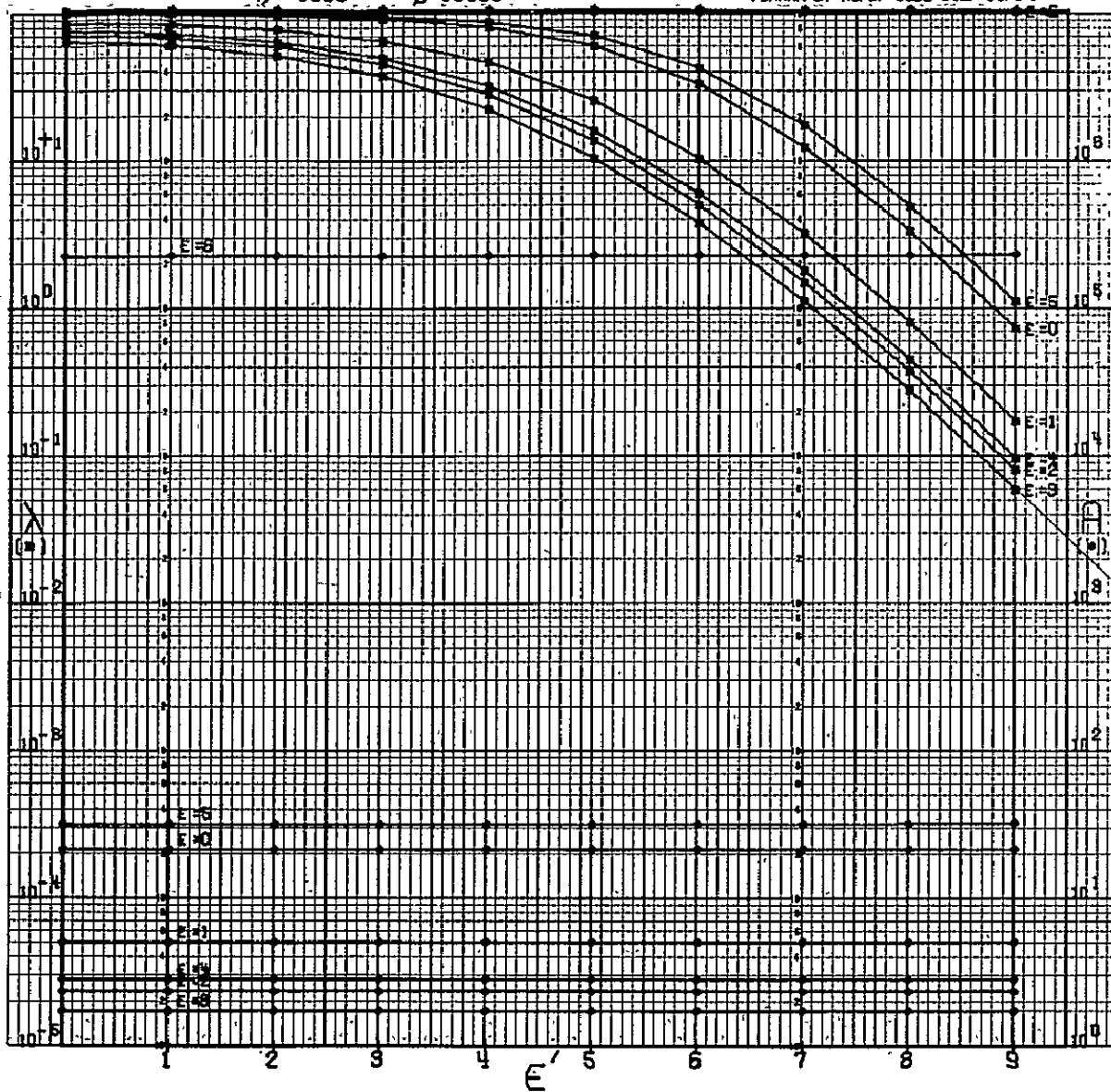
CODE 1111010111100110011010000000

GSFC STANDARD

$\eta = 1000$

$\beta = 10000$

(DRAWN BY ROPS, CODE 542, GSFC)

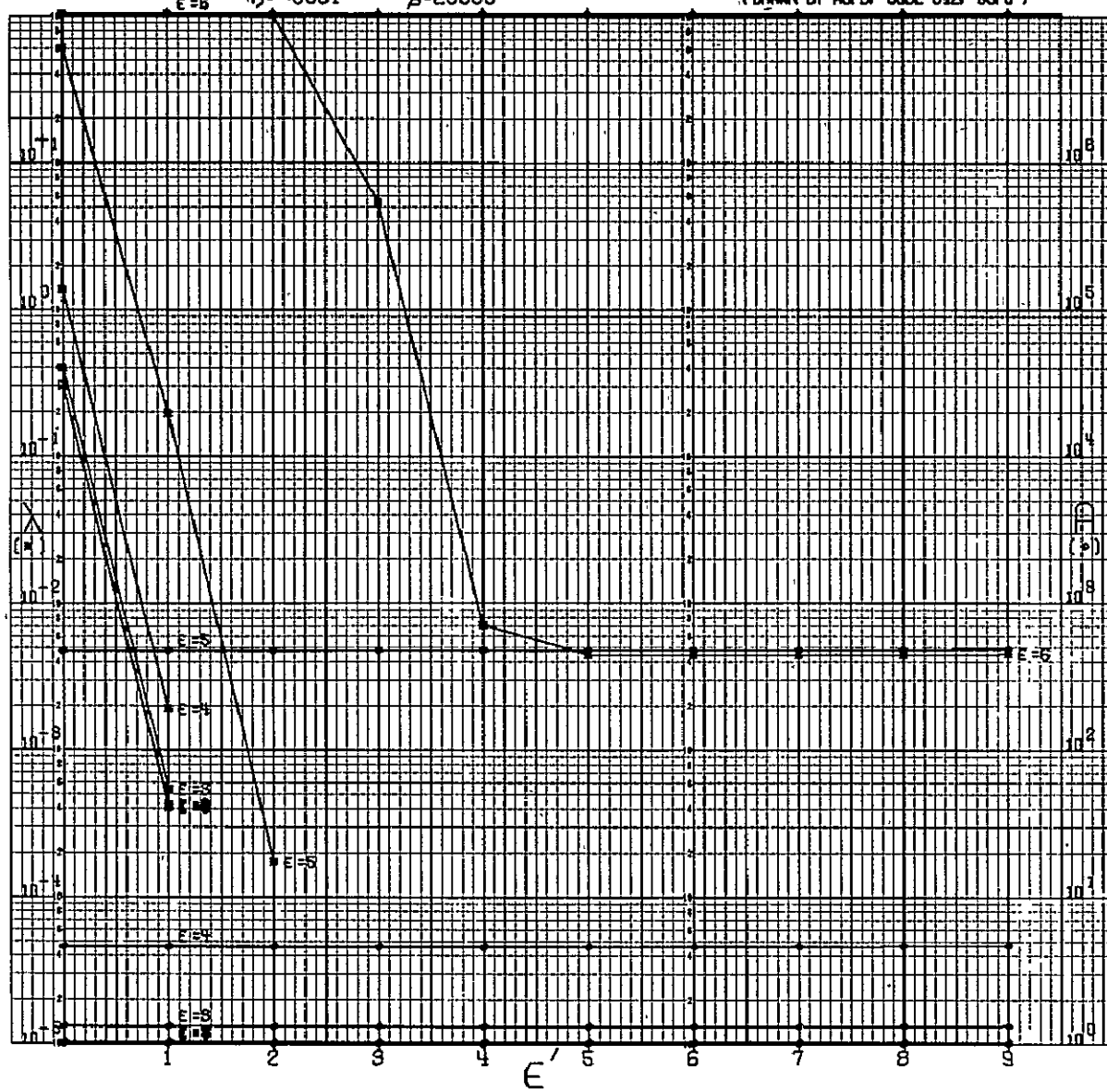


CODE 11110101110011001101000000

GSFC STANDARD

 $\eta = .0001$ $\beta = 20000$

(DRAWN BY ROPB, CODE 542, GSFC)



A-735

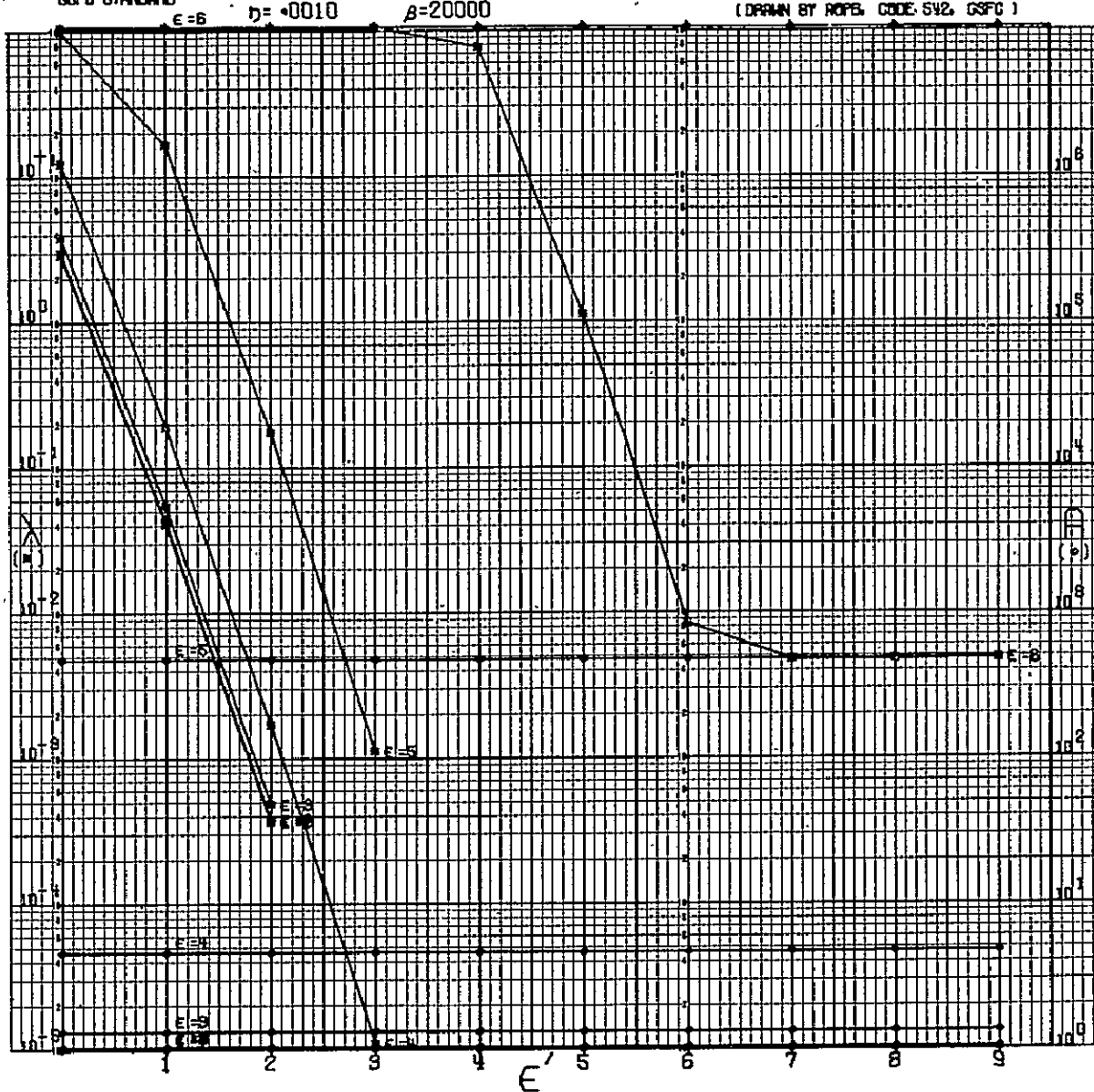
N=29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = .0010$

$\beta = 20000$

(DRAWN BY ROPEL CODE 542, GSFC)



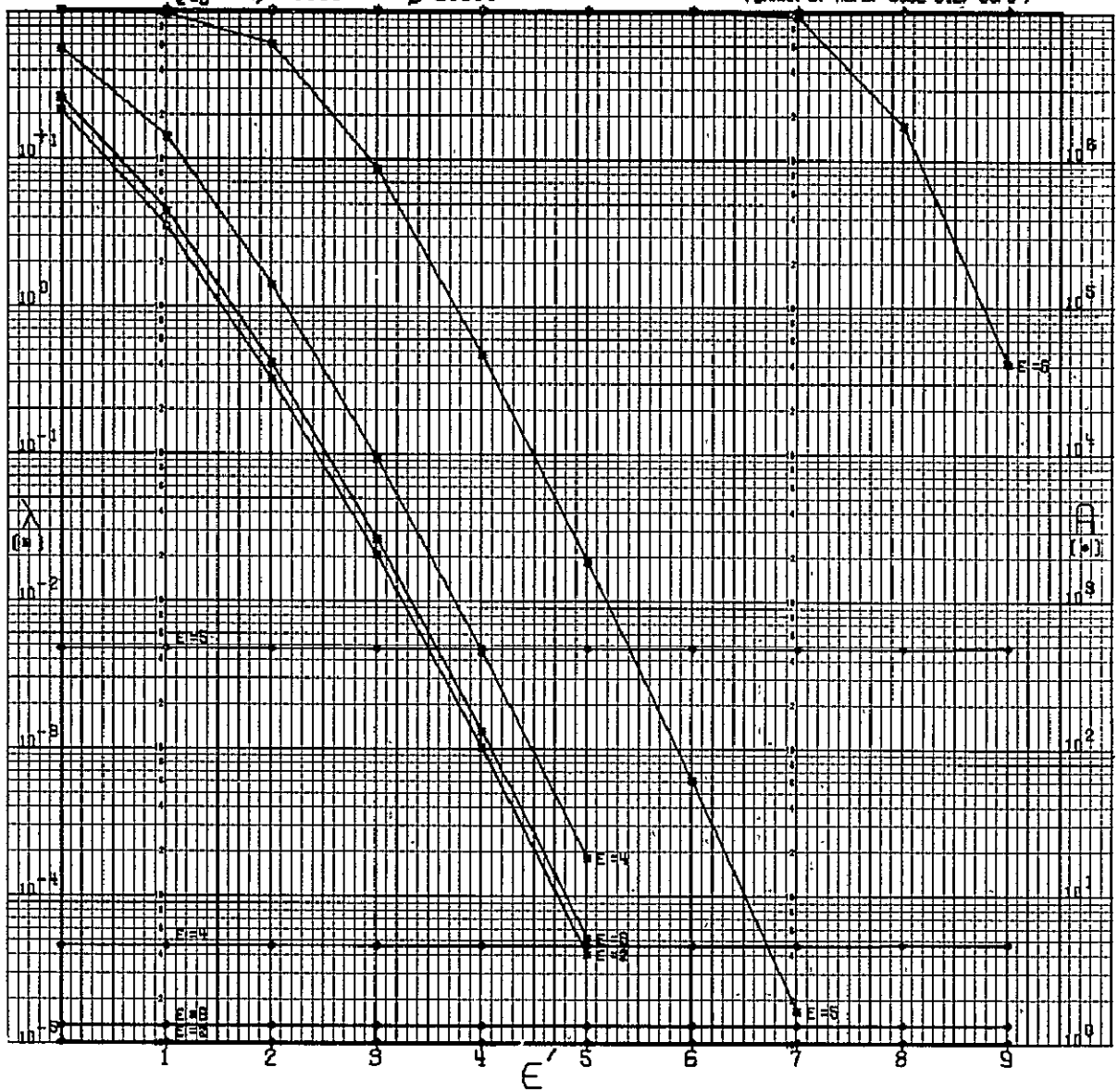
A-736

N = 29

CODE 1111010111100110011010000000
GSFC STANDARD

$\eta = 0.100$ $B = 20000$

(DRAWN BY ADPBL CODE 542; GSFC)



N=29

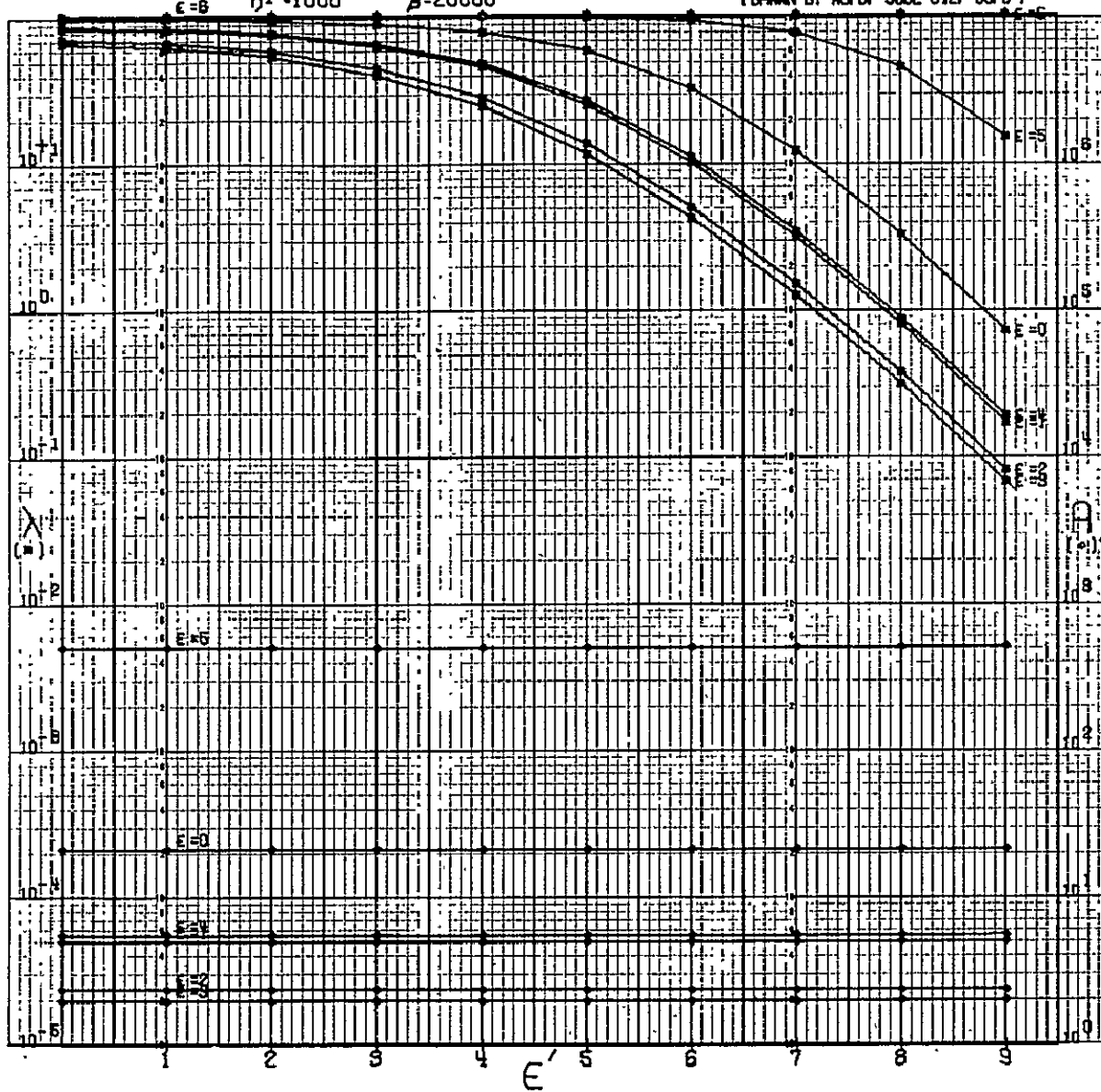
CSOE 1111010111100110011010000000

GSFC STANDARD

$\epsilon = 8$ $\eta = 1000$

$\beta = 20000$

(DRAWN BY ROPB, CSOE 542, GSFC)



$$N = 30$$

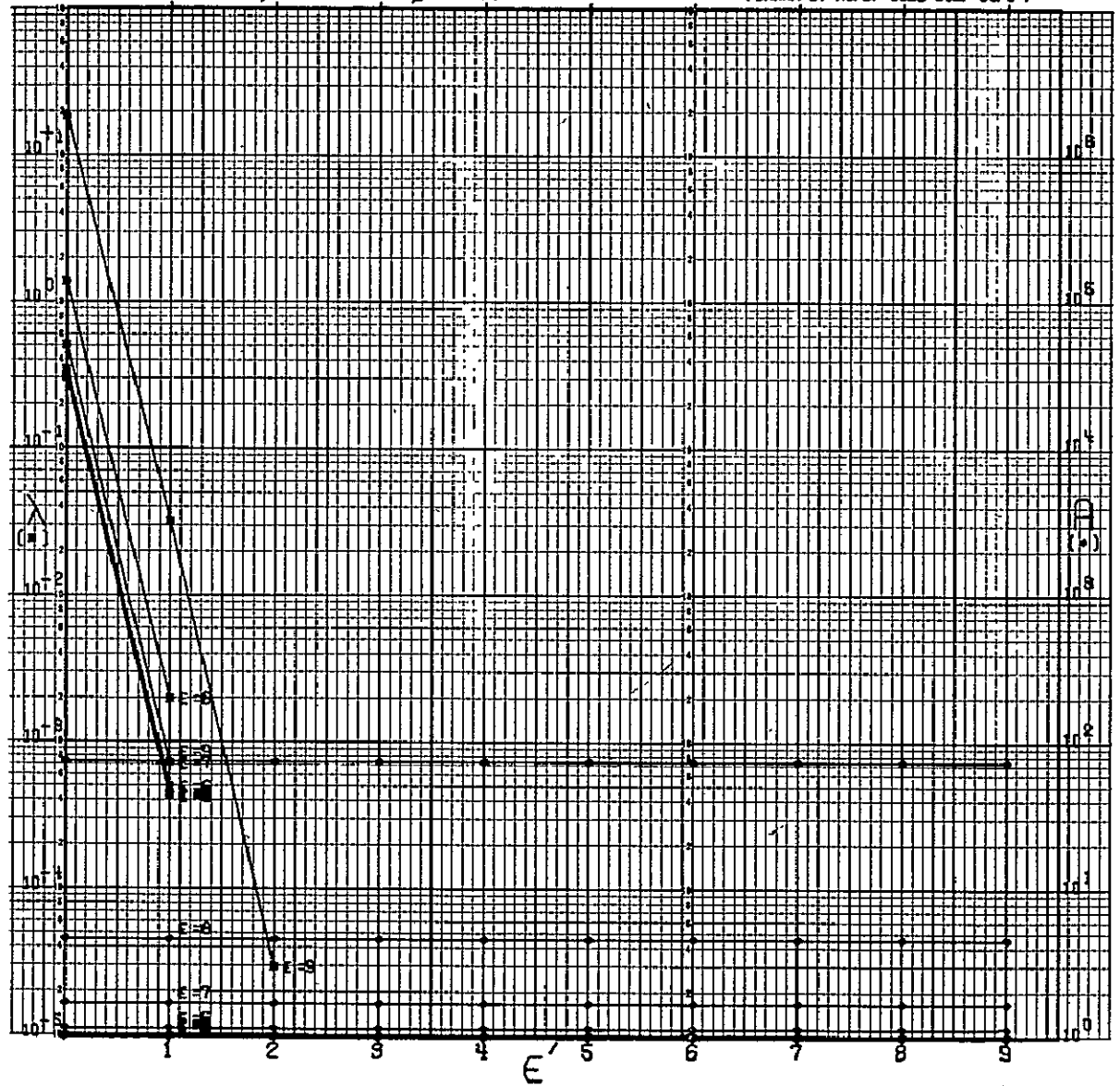
N = 90

CODE 1111101011110011000110000000
GSFC STANDARD

$\eta = 0.001$

$\beta = 100$

(DRAWN BY ROMS. CODE 542. GSFC)



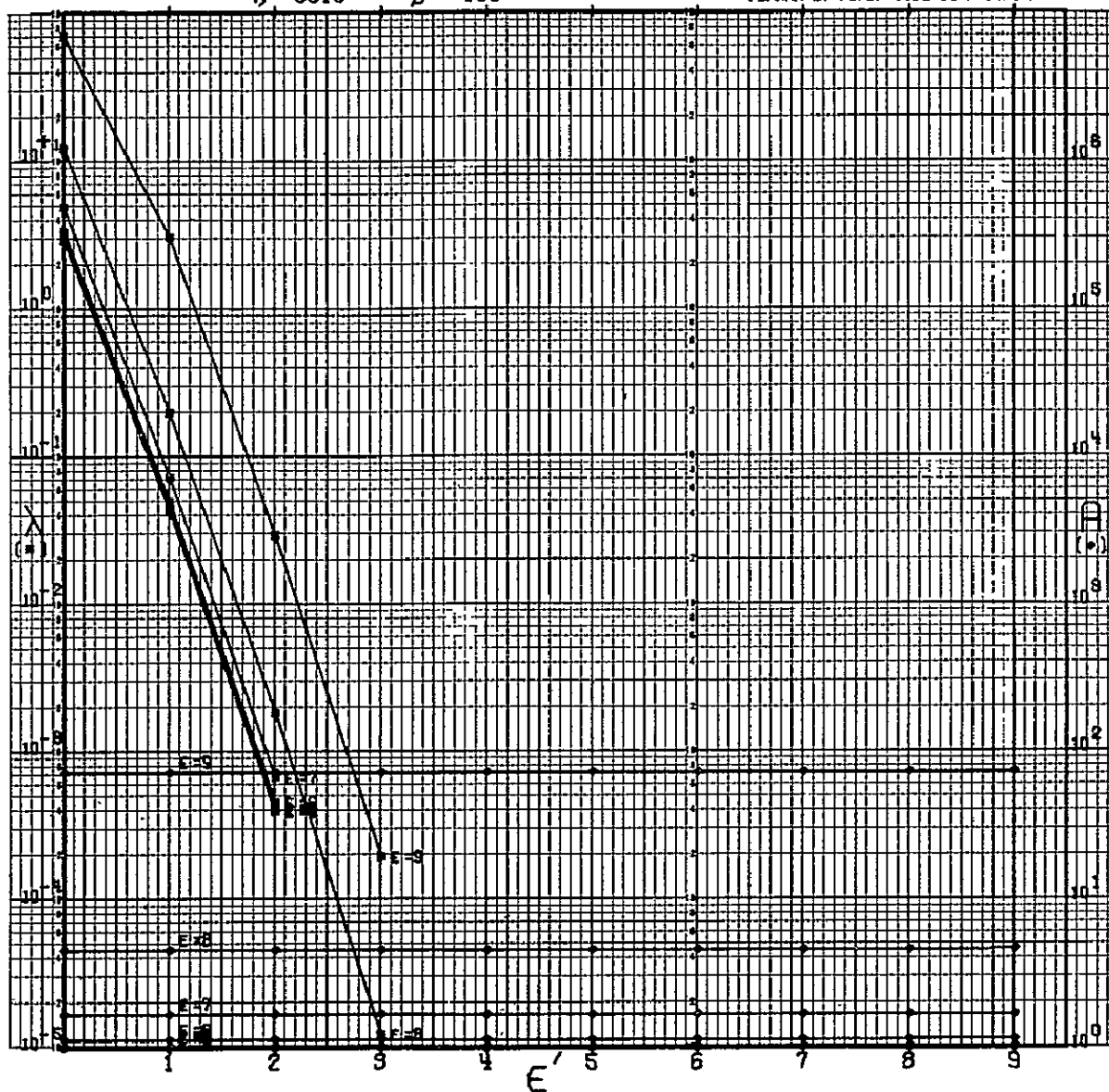
N=90

CODE 1113101011110011000110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 100$

(DRAWN BY ADPS, CODE 592, GSFC)



A-740

N=30

CODE 111110111110011000110100000
GSFC STANDARD

$\eta = 0.100$

$\beta = 100$

(DRAWN BY ROPS, CODE 542, GSFC)



A-741

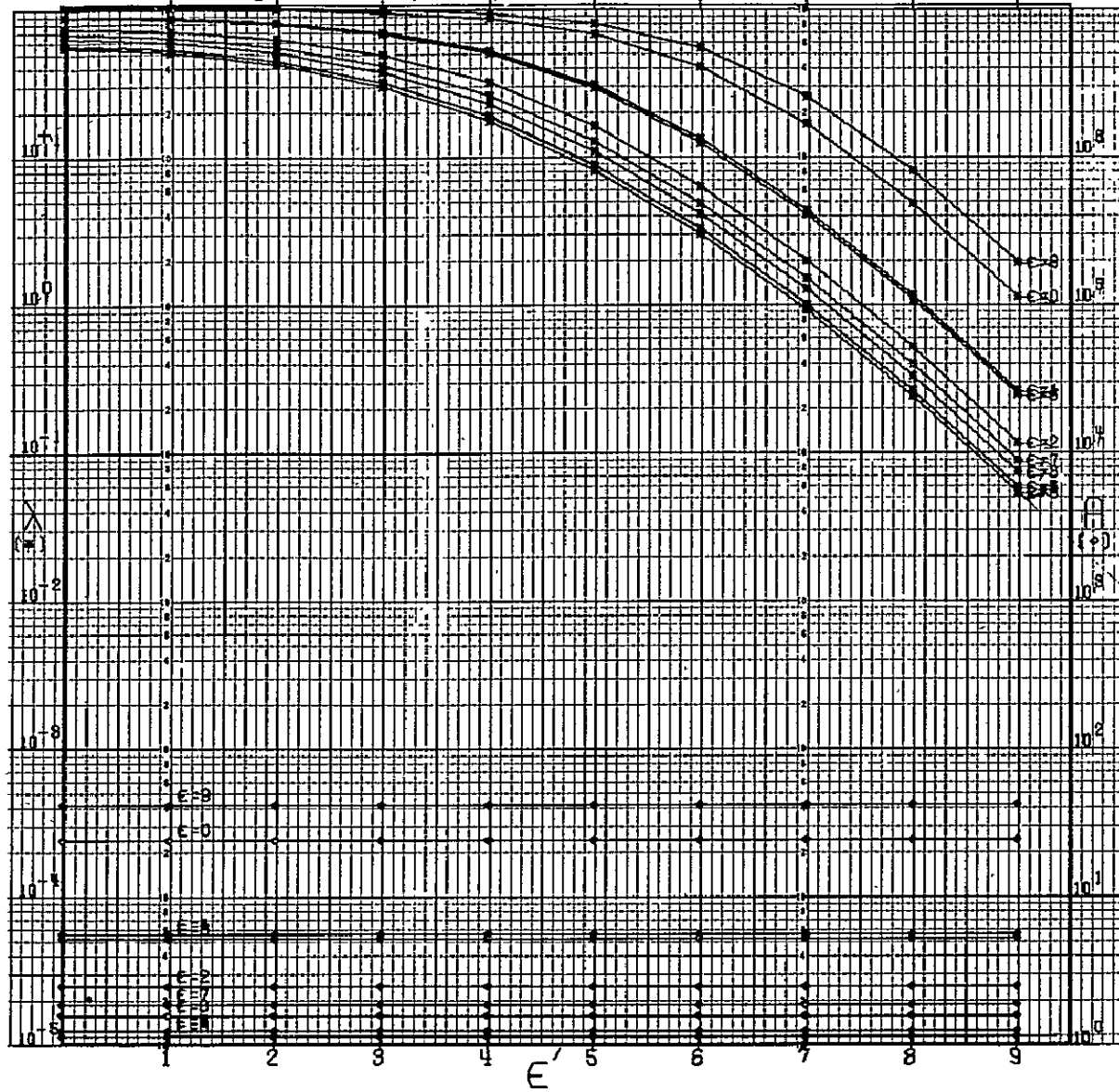
N=30

CODE 1111101111100110001100000000
GSFO STANDARD

$\beta = 1000$

$\beta = 100$

DRAWN BY ROPS. CODE 542. GSFO 7



A-742

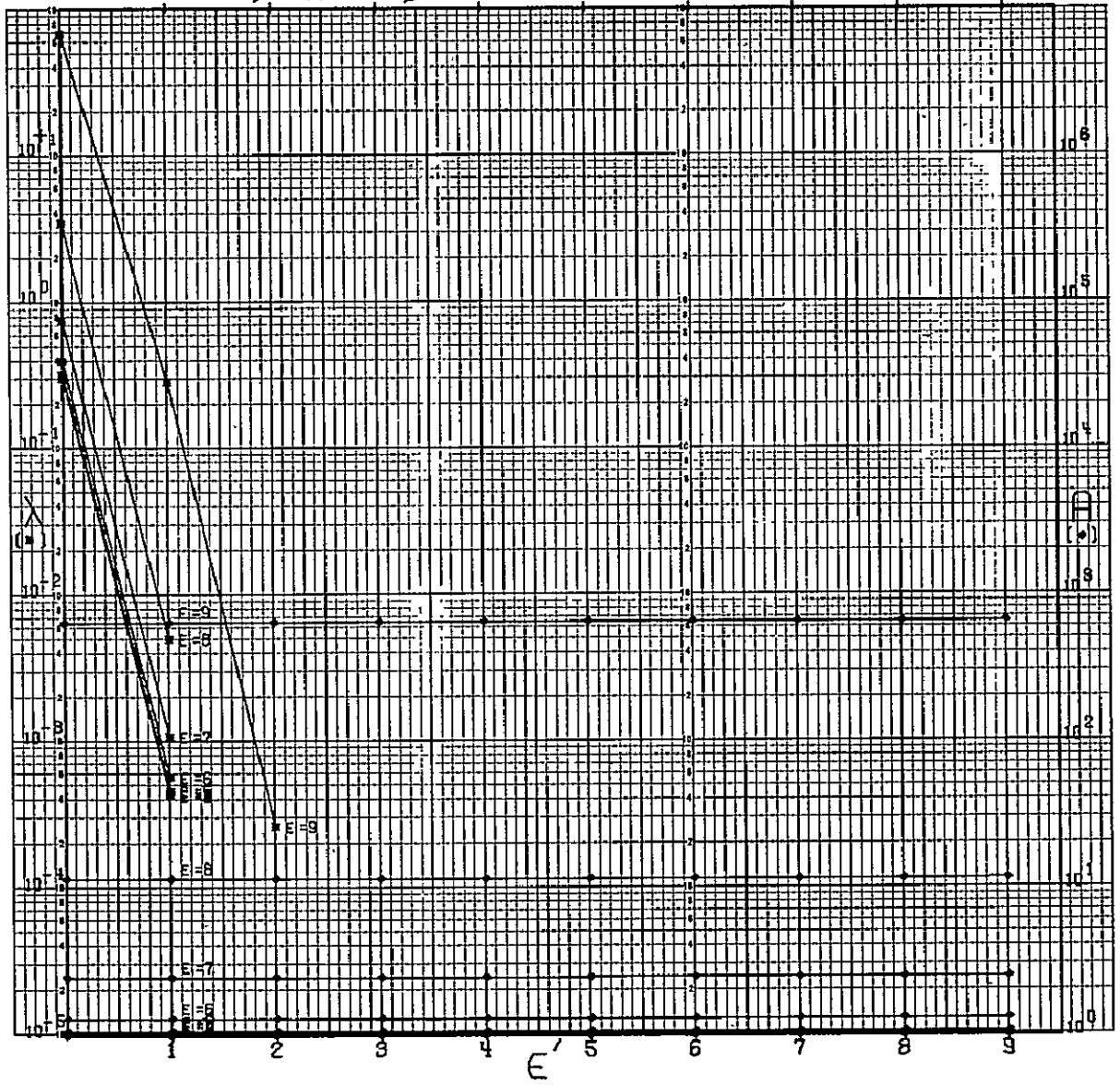
N=30

CSOE 1111101011110011000110000000
GSFC STANDARD

$\eta = +0001$

$\beta = 200$

(DRAWN BY ADPS, CODE 542, GSFC)



A-743

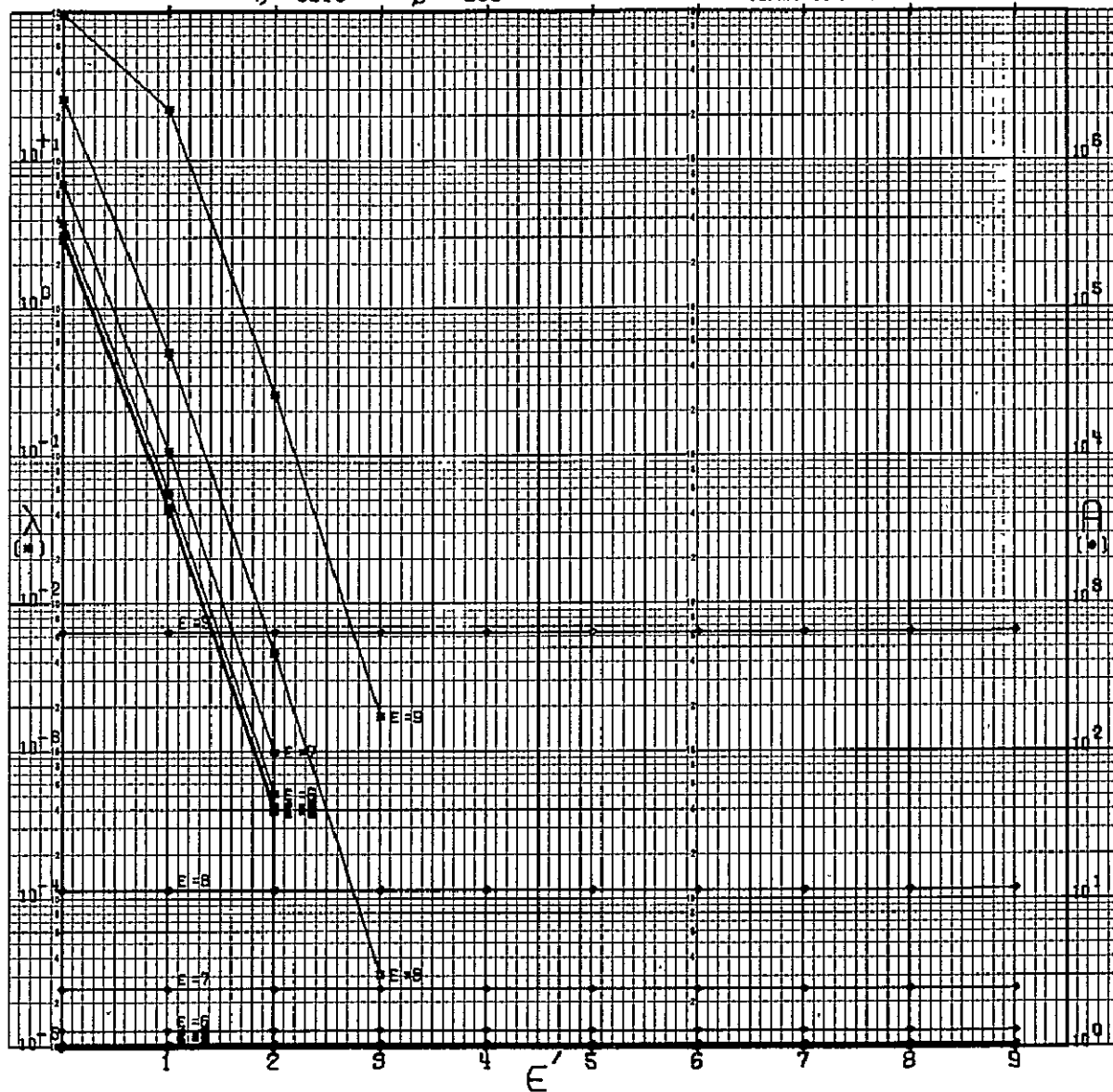
N = 90

CODE 111101011110011000110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 200$

(DRAWN BY ROPB, CODE 542, GSFC)



A-744

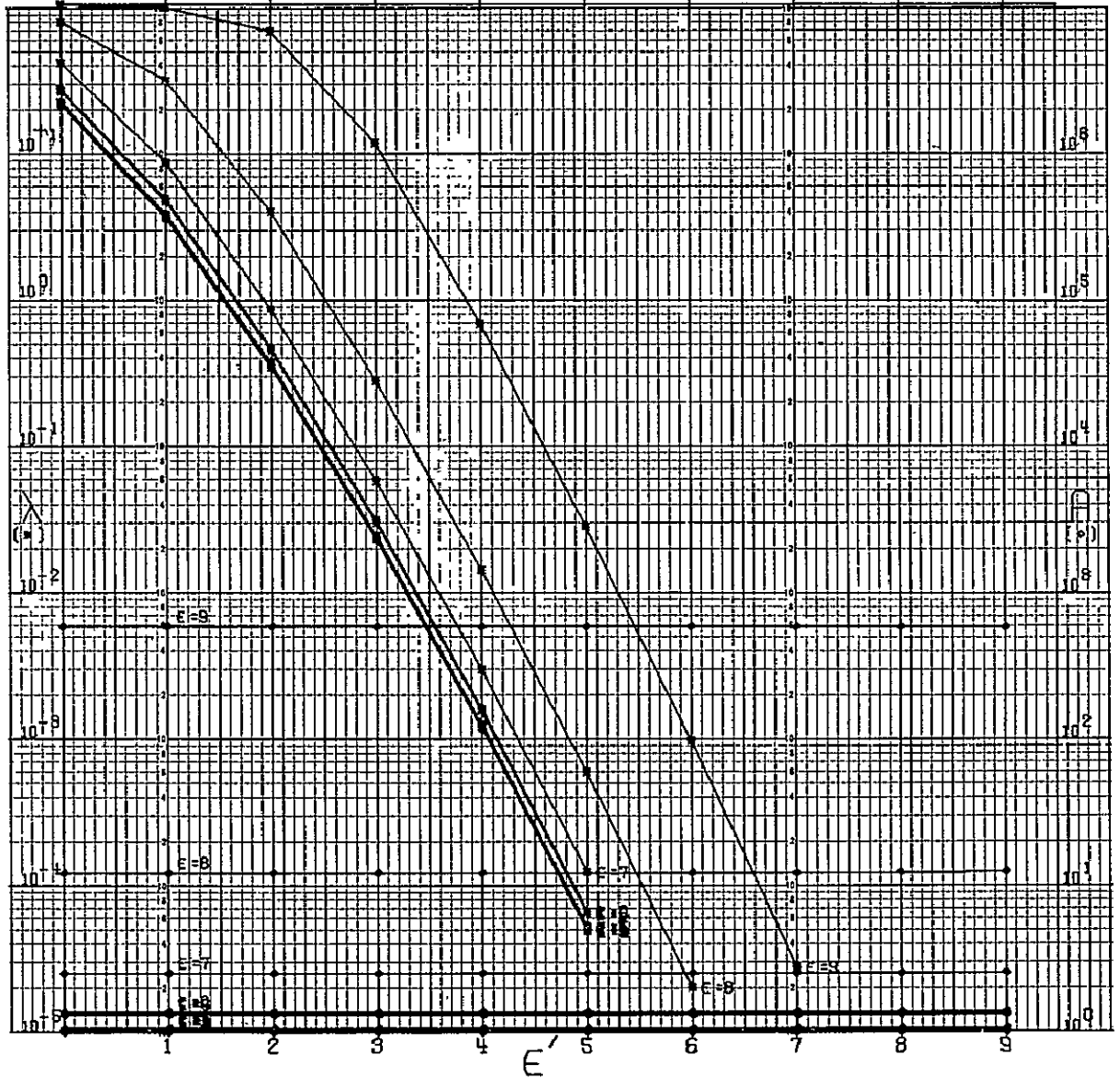
N=80

CODE 1111101011110011000110000000
GSFC STANDARD

$\eta = 0.100$

$\beta = 200$

(DRAWN BY RCPB, CODE 542, GSFC)



A-745

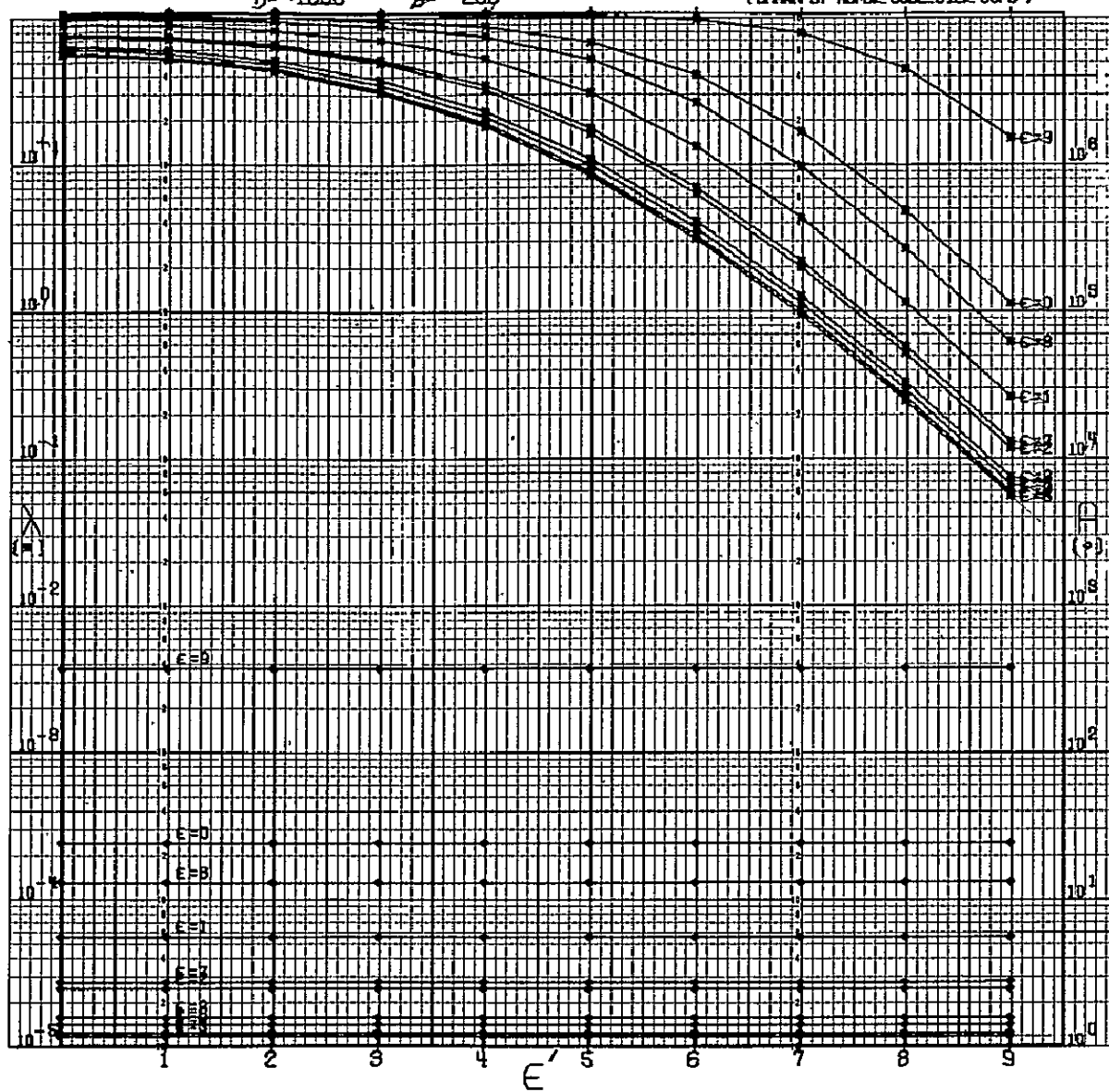
N-90

CODE 1111101011110011000110000000
GSD. STANDARD

$\eta = 1.000$

$\beta = 200$

FORM BY ARB. CODE 542. GSD. 7



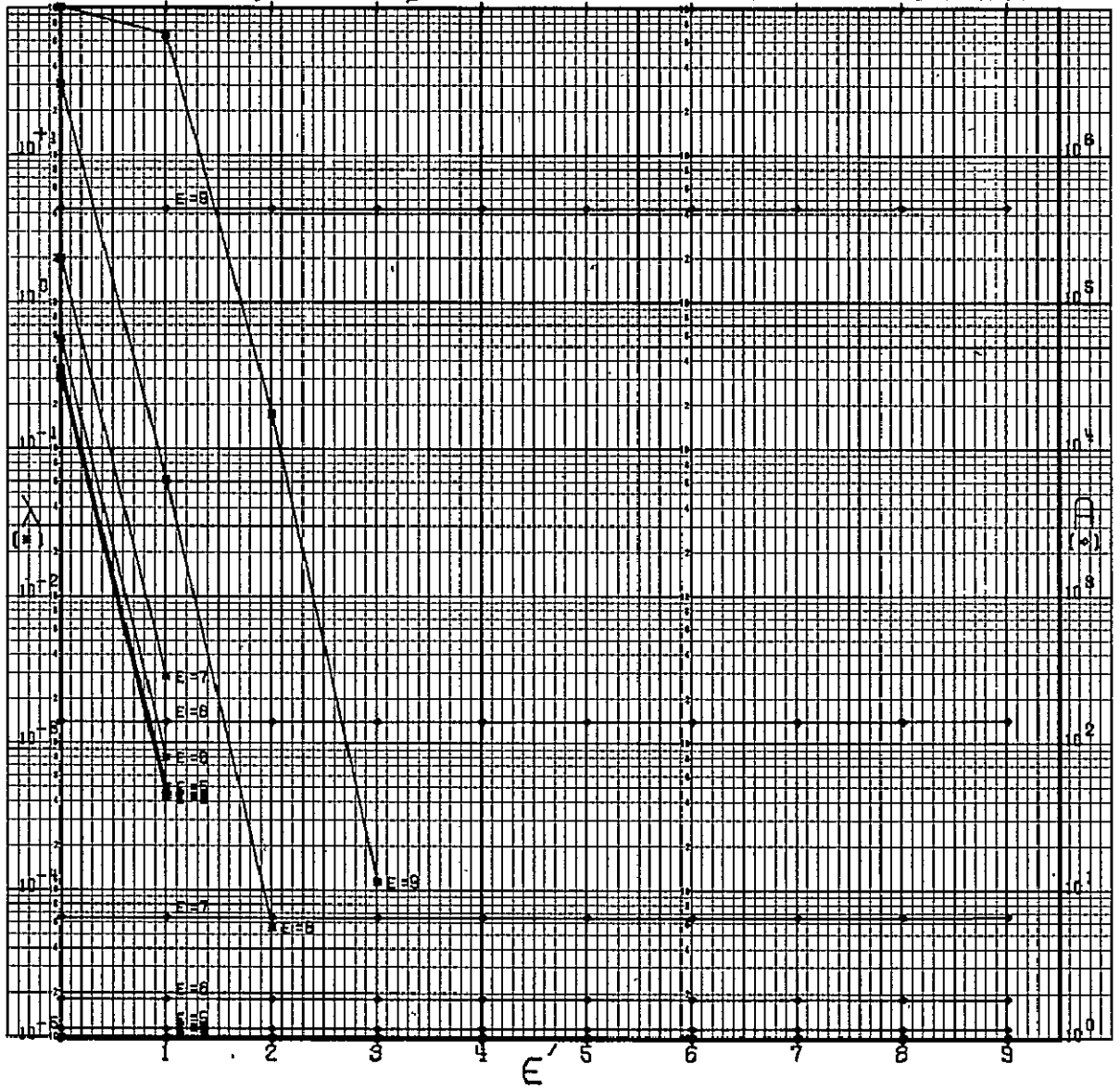
N = 50

C80E 1111101011110011000110000000
GSFC STANDARD

$\eta = .0001$

$\beta = 500$

(DRAWN BY AOPS, CODE 592, GSFC)



A-747

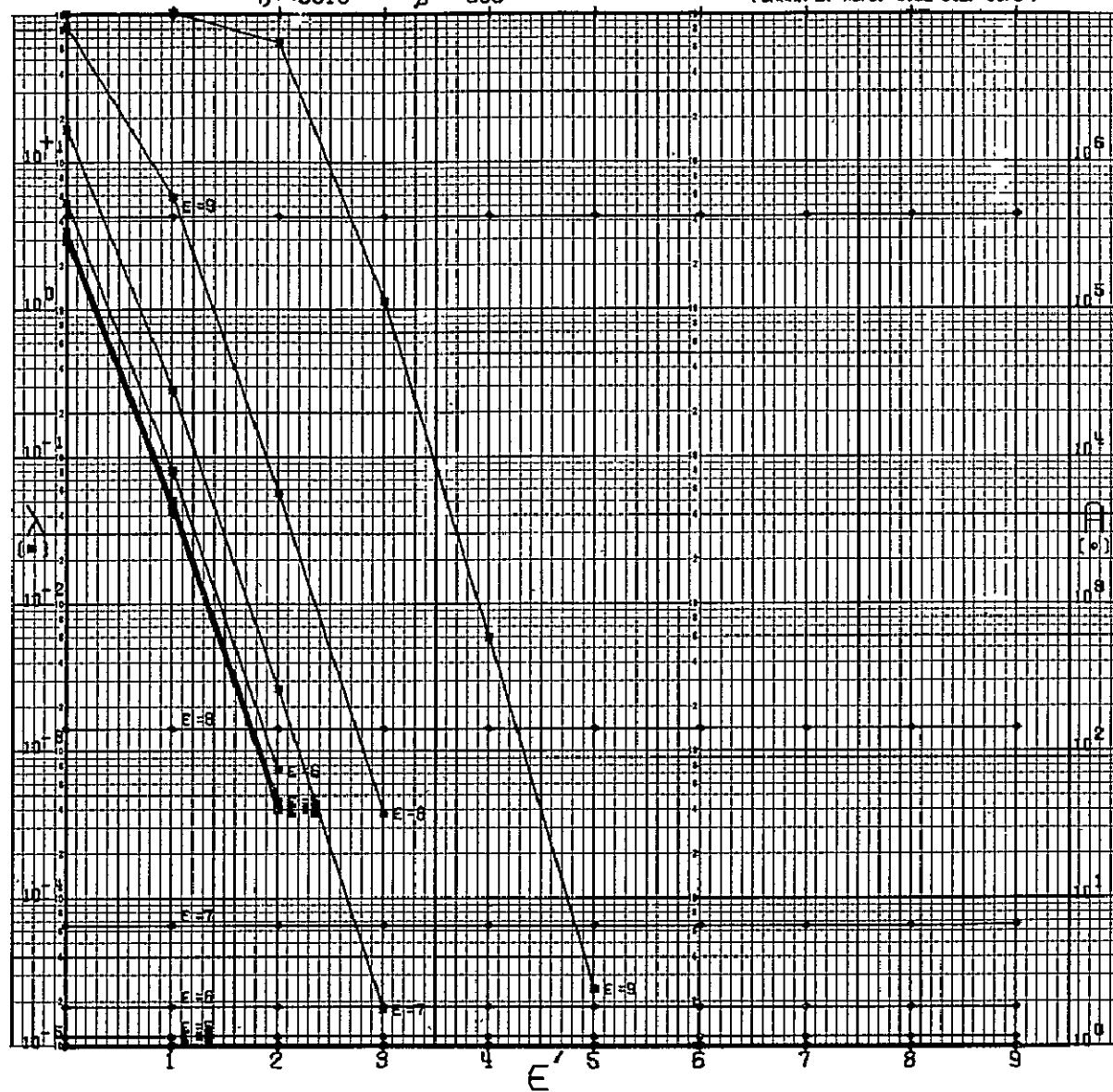
N = 30

CODE 1111101011110011000110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 500$

(DRAWN BY ROPB, CODE 542, GSFC)



A-748

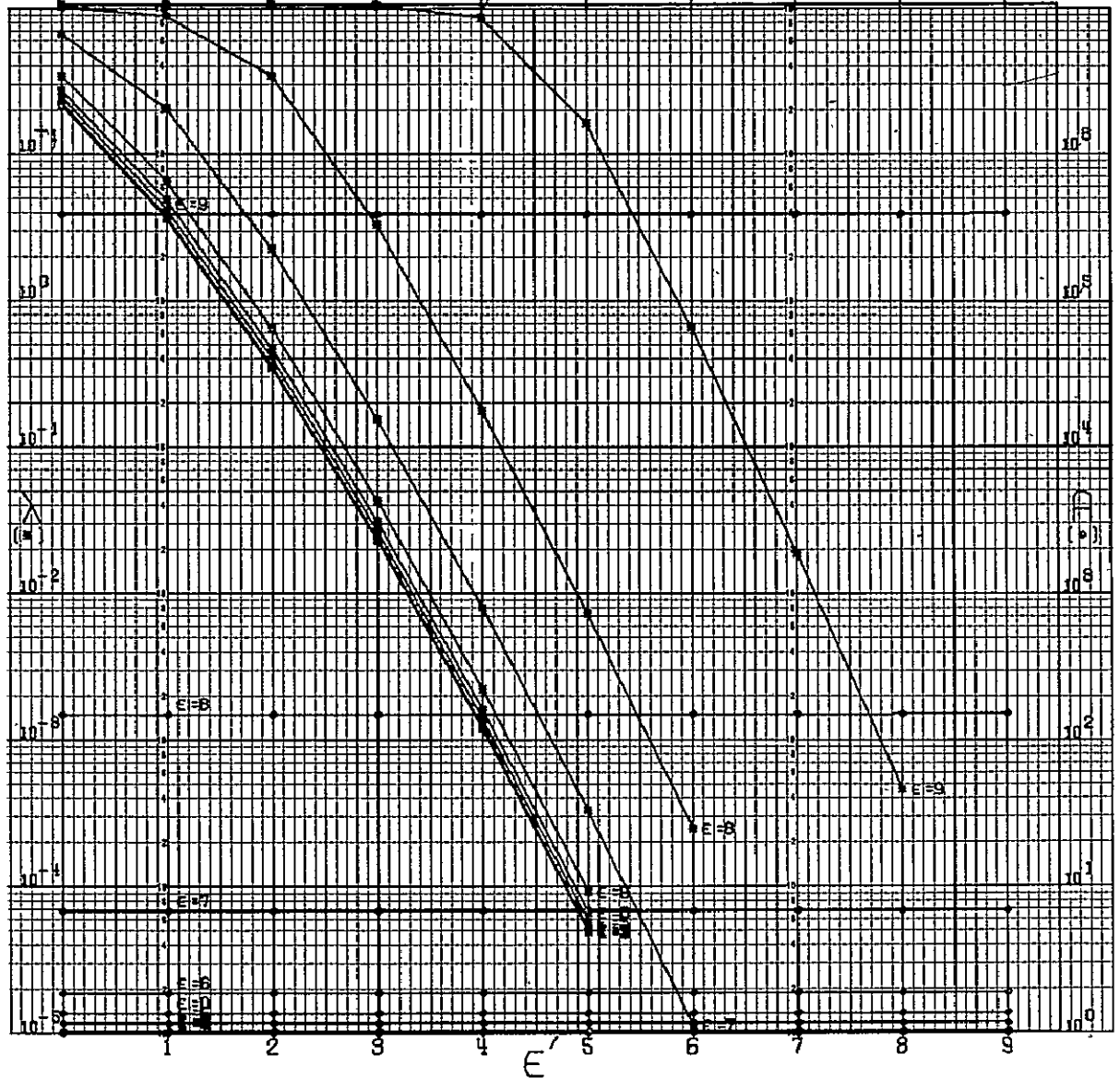
N=30

CODE 111210101110011000110000000
GSFO STANDARD

$b = +81.00$

$\beta = 500$

(DRAWN BY ADRS. CODE 542. GSFO)



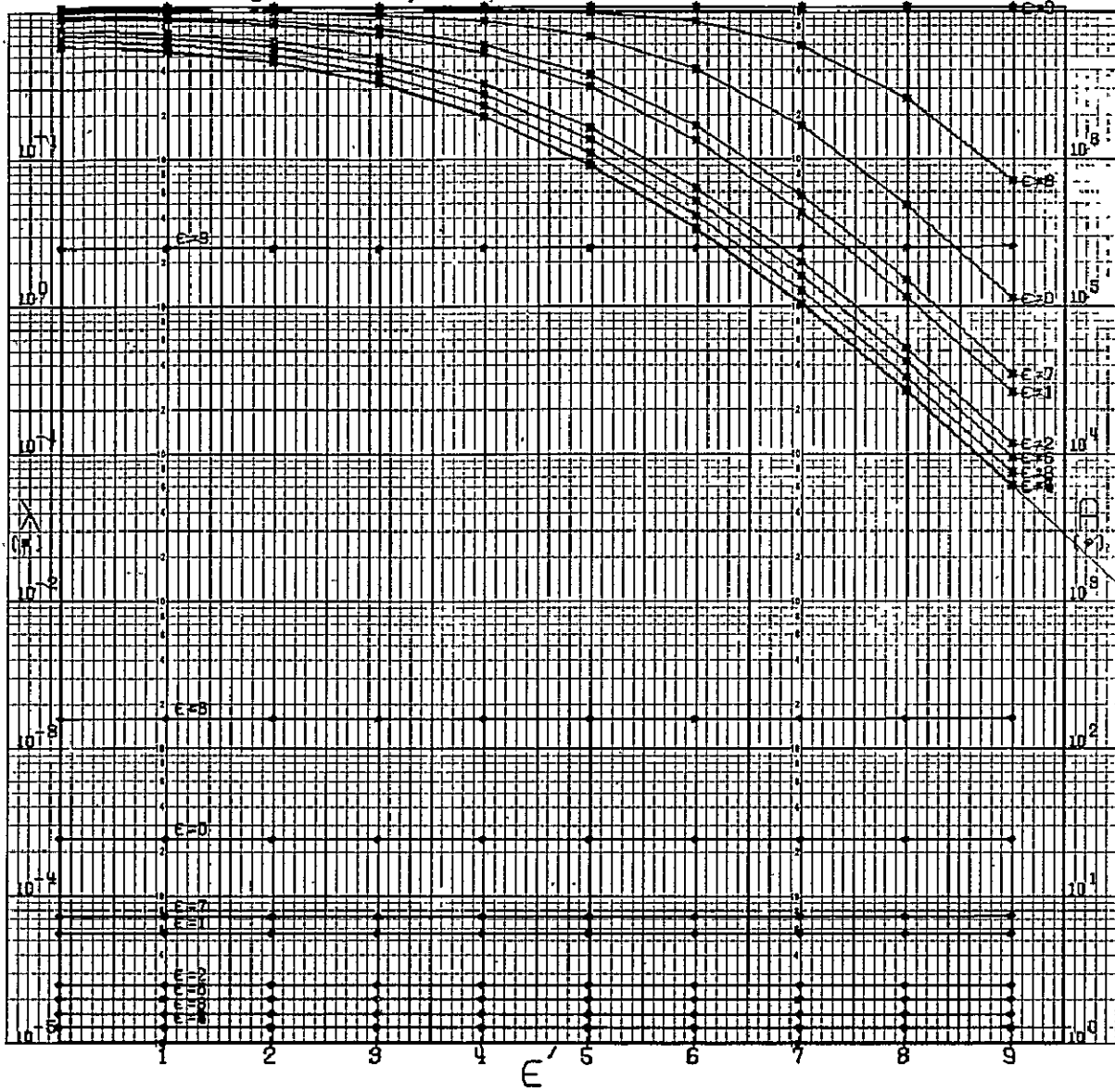
N=30.

CODE 11111010111001100011000000
GSFC STANDARD.

$\eta = 1000$

$\beta = 500$

(OFRUN BY ROFS. CODE 542. GSFC)



A-750

N = 90

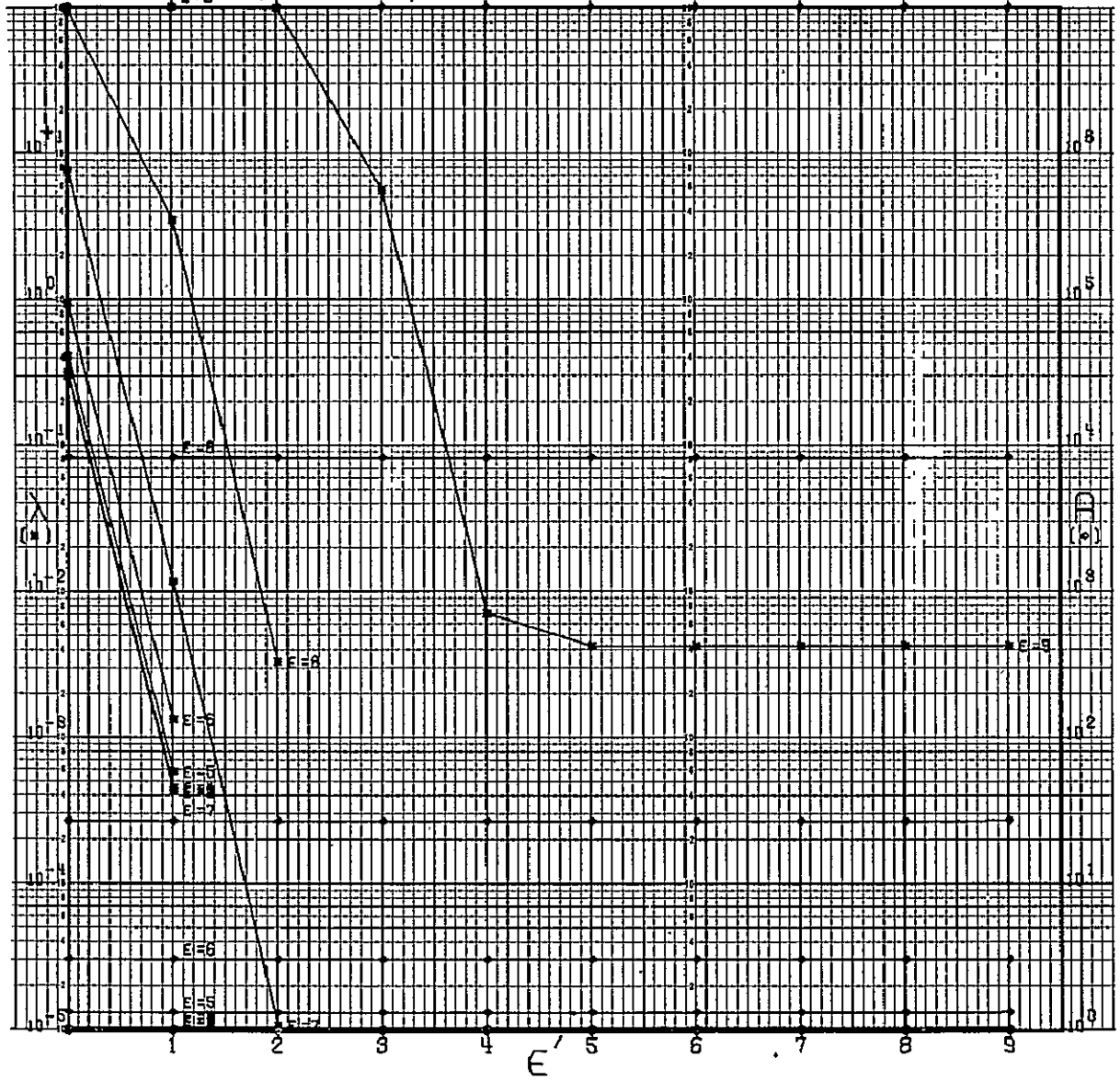
CODE 1111101011110011000110000000

GSFC STANDARD

$\epsilon = 9$

$\beta = 1000$

(DRAWN BY ROPB, CODE 542, GSFC)



N=Su

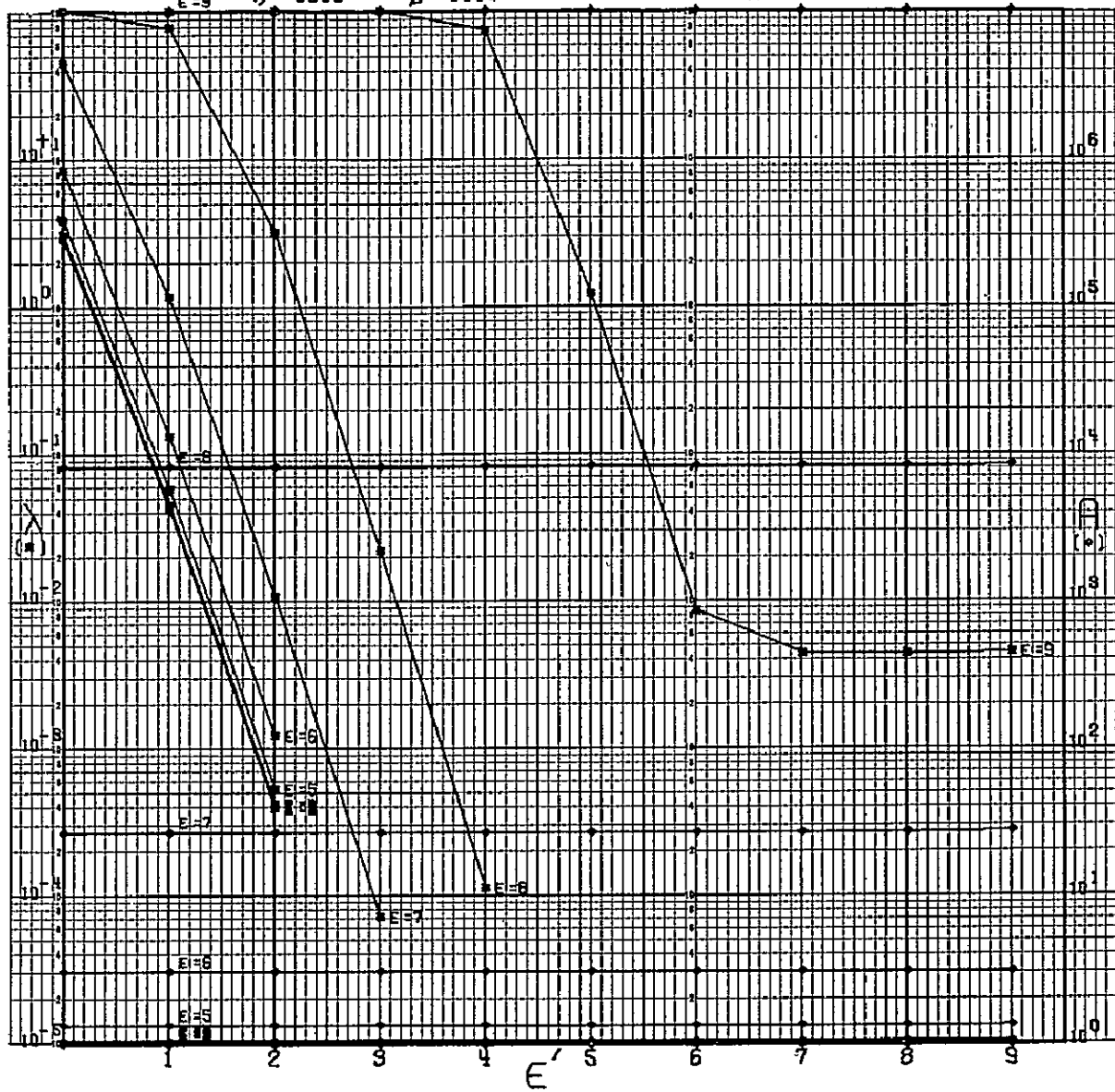
CODE 1111101011110011000100000000
GSFC STANDARD

$\epsilon = 9$

$\eta = .0010$

$\beta = 1000$

(DRAWN BY ACPB, CODE 542, GSFC)



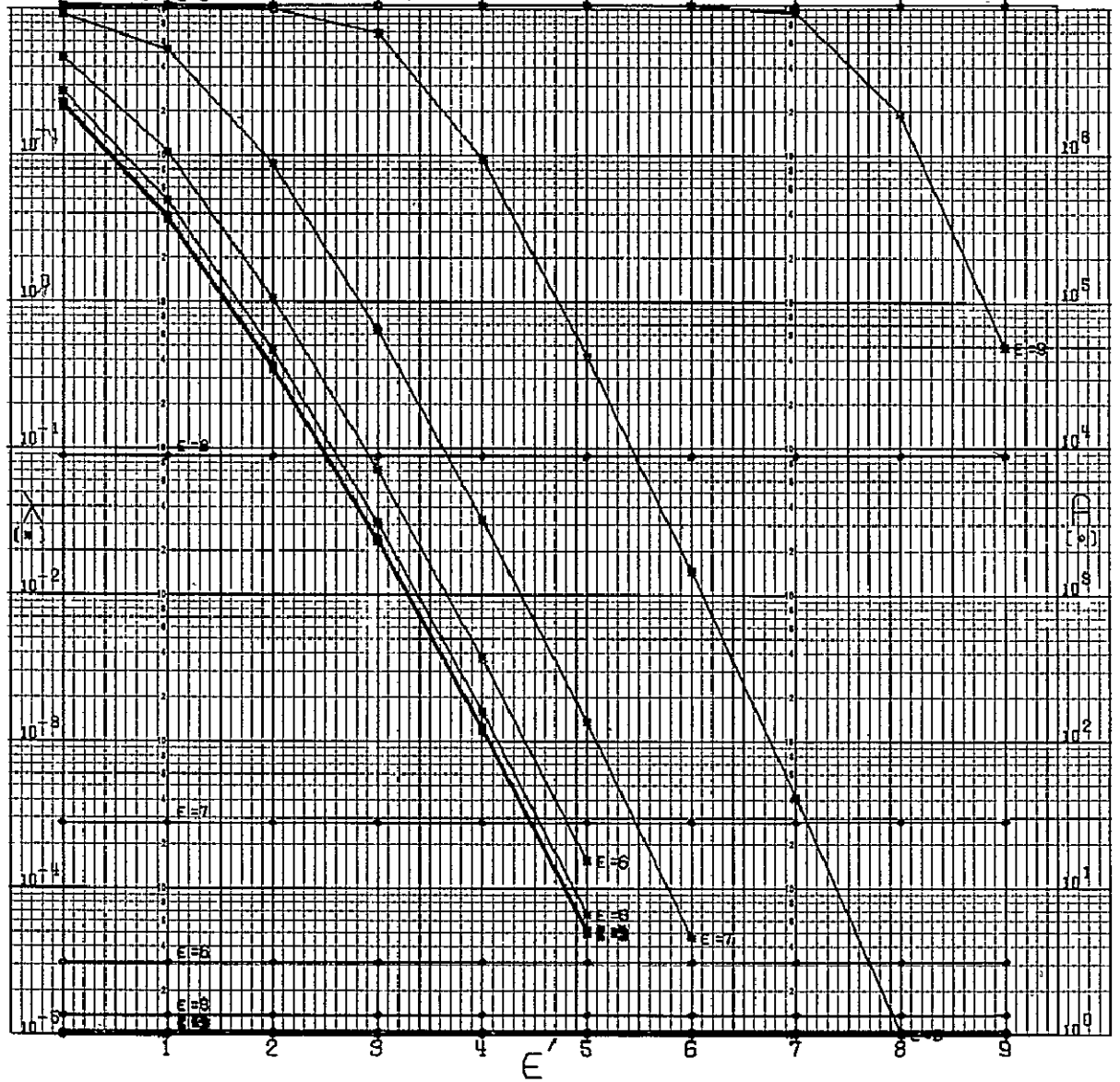
A-752

N=30

CODE 111110101110011000110000000000
GSFC STANDARD

$\epsilon = 9$ $D = 0.100$ $\beta = 1000$

(DRAWN BY ROPEL CODE 542 GSFC)



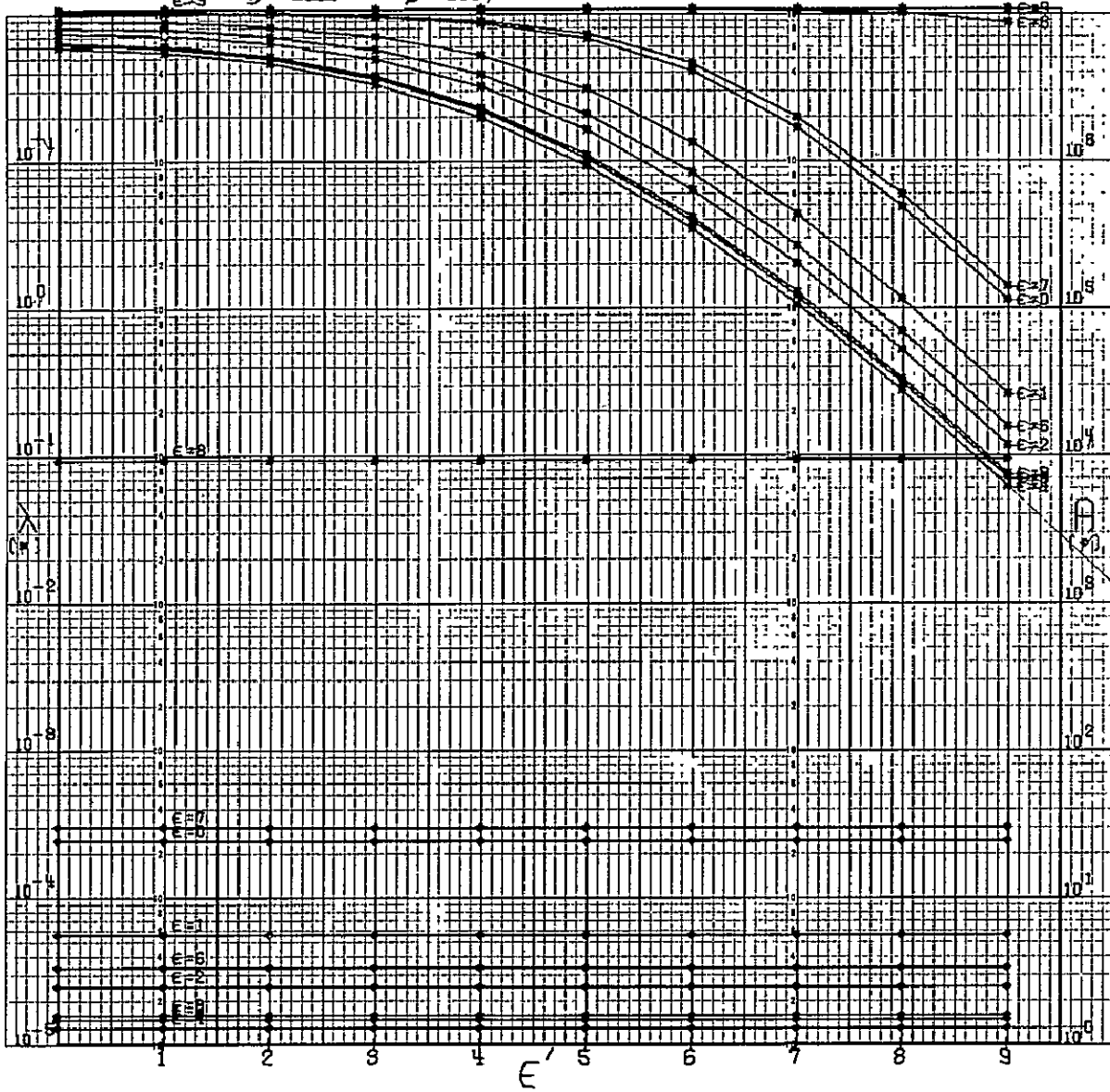
N=90.

CODE 111110101110011000110000000
GSPD STANDARD.

$b = +1000$

$\beta = 1000$

↑ ORIGIN BY RSFB. CODE 542. GSPD 7



N = 90

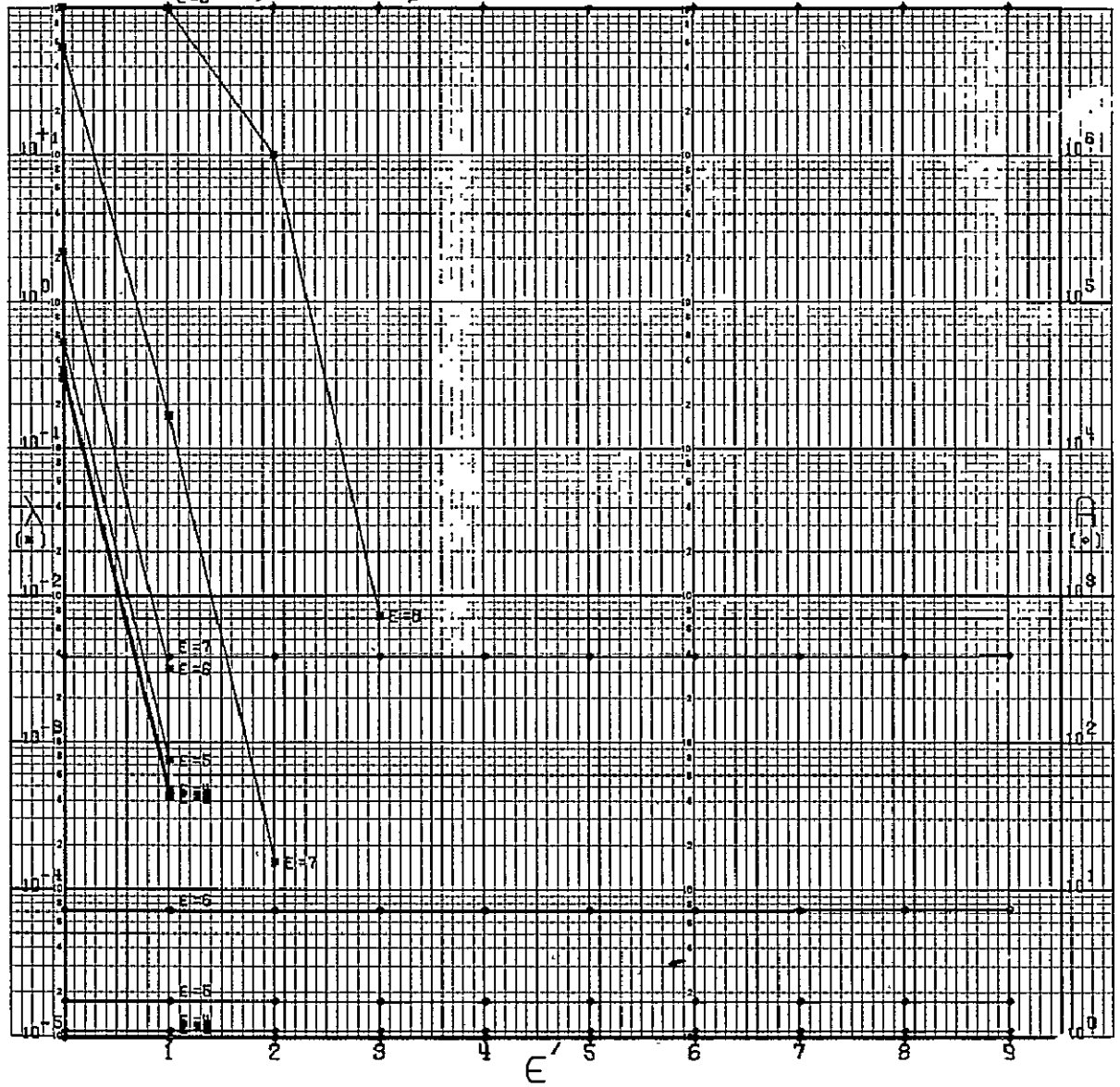
CODE 1111101011110011000110000000

GSFC STANDARD

$\epsilon = 8$ $\eta = .0001$

$\beta = 2000$

(DRAWN BY ROPE, CODE 542, GSFC)



A-755

N = 30

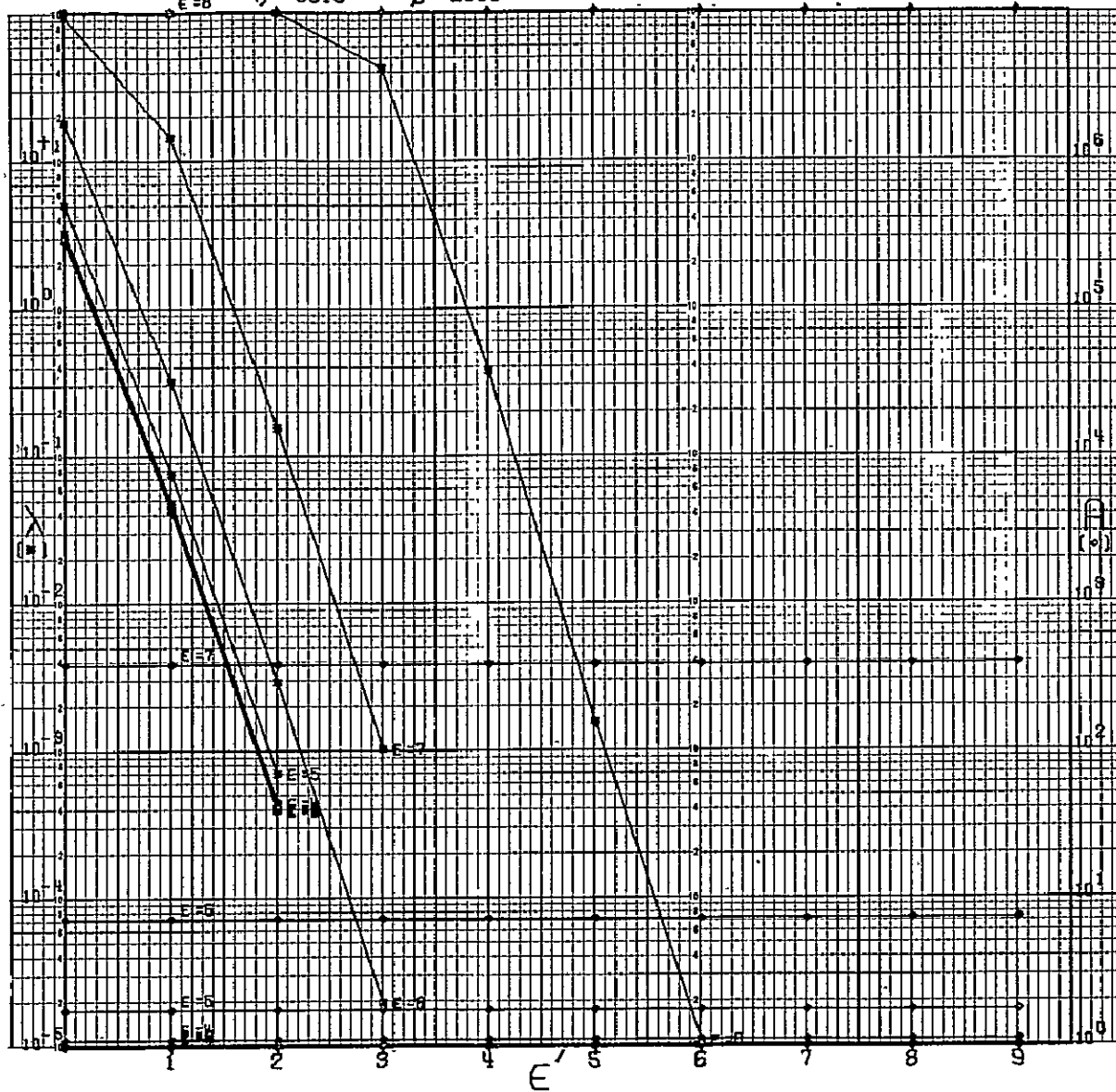
CODE 111110101111001100110000000

GSFC STANDARD

$\epsilon = 8$ $\eta = .0010$

$\beta = 2000$

(DRAWN BY ROPB, CODE 542, GSFC)



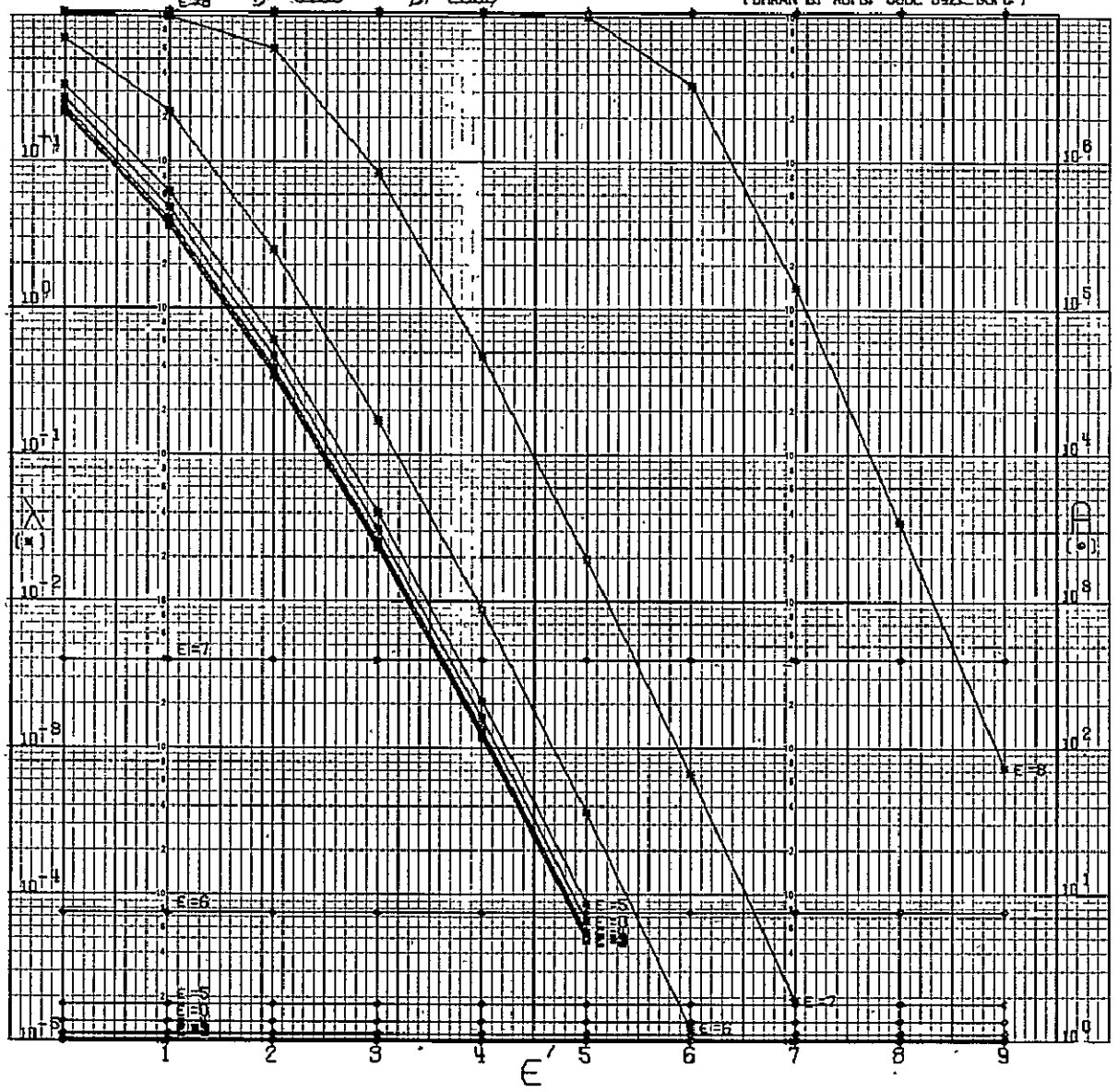
N=90

CODE 111110101110011000000000
GSFC STANDARD

$b = 0.100$

$B = 2000$

DRAWN BY ROPB. CODE 542 GSFC 1



A-757

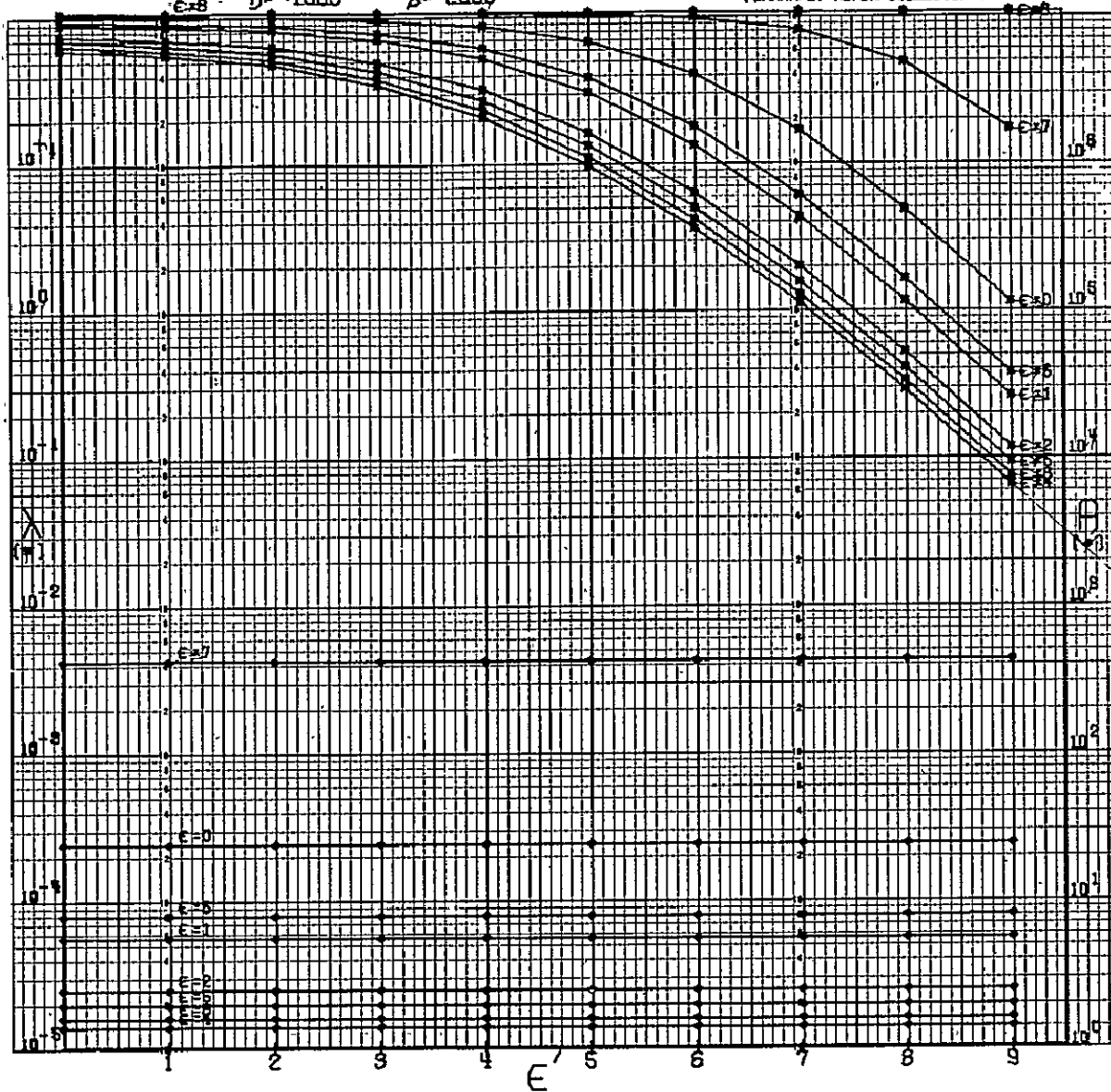
N=50

CODE 1111101011110011000110000000
GSD STANDARD

$\epsilon = 8$ $\eta = 1000$

$\beta = 2000$

(DRAWN BY RSPB. CODE 542. GSD 7)



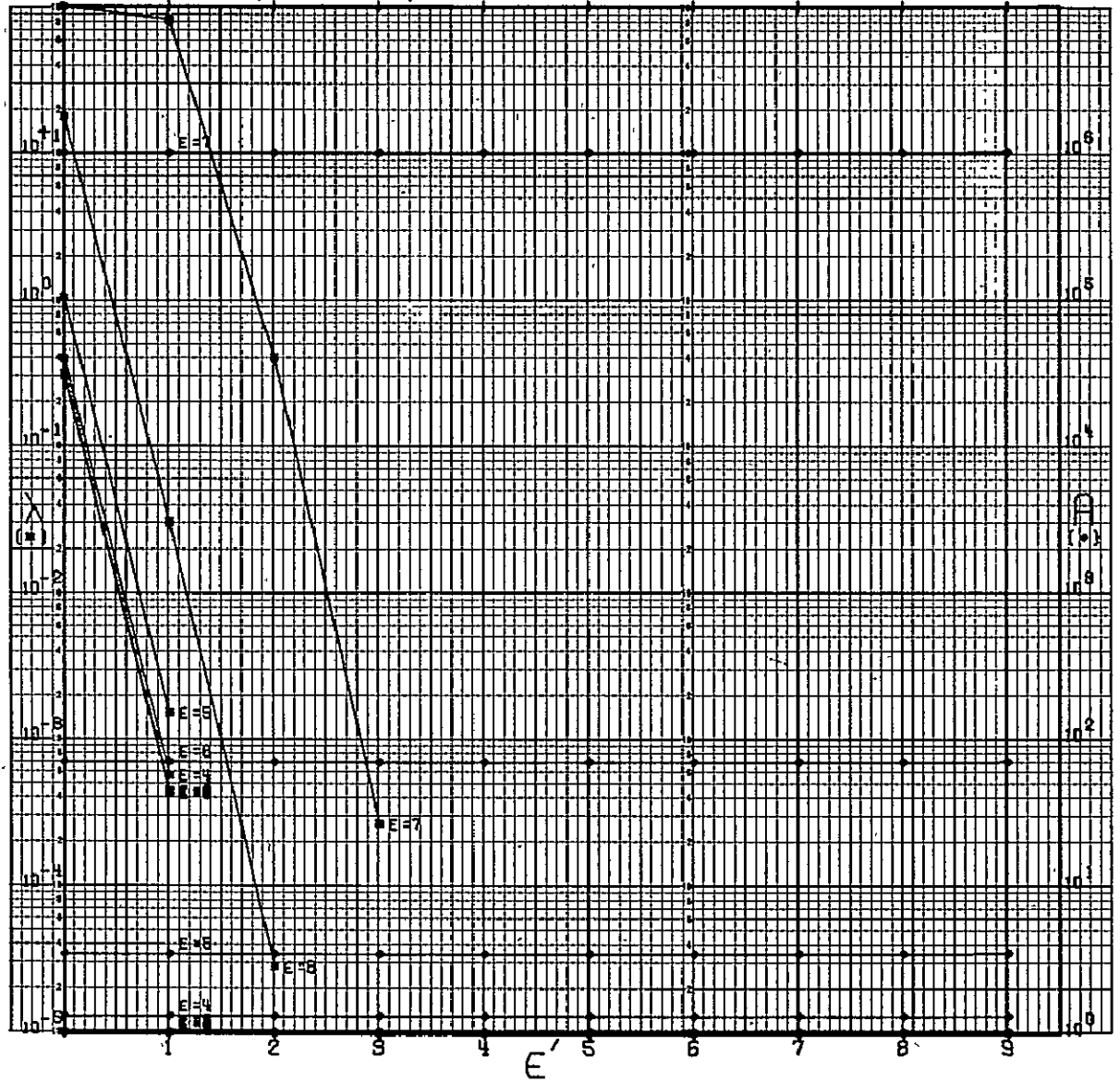
N = 30

CODE 1111101011110011000110000000
GSFC STANDARD

$\eta = 0.001$

$\beta = 5000$

(DRAWN BY ROMS, CODE 542, GSFC)



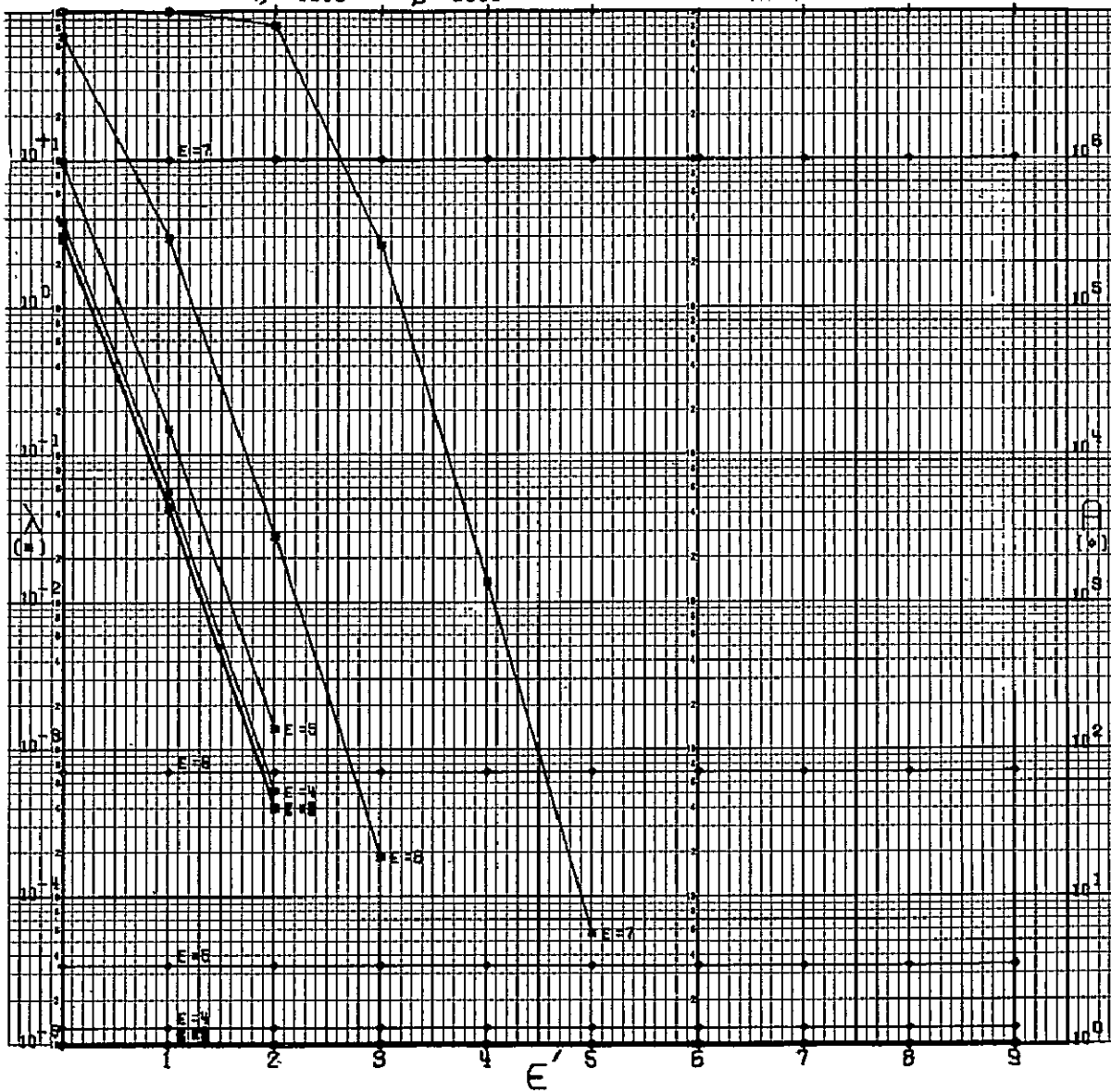
N=90

CODE 1111101011110011000110000000
GSFC STANDARD

$\eta = .0010$

$\beta = 5000$

(DRAWN BY ROPE, CODE 592, GSFC)



N-30

CODE 11111010111001100011000000
GSFO STANDARD

$\eta = 0.100$

$\beta = 5000$

DRAWN BY ACPL CODE 542 GSFO 7



A-761

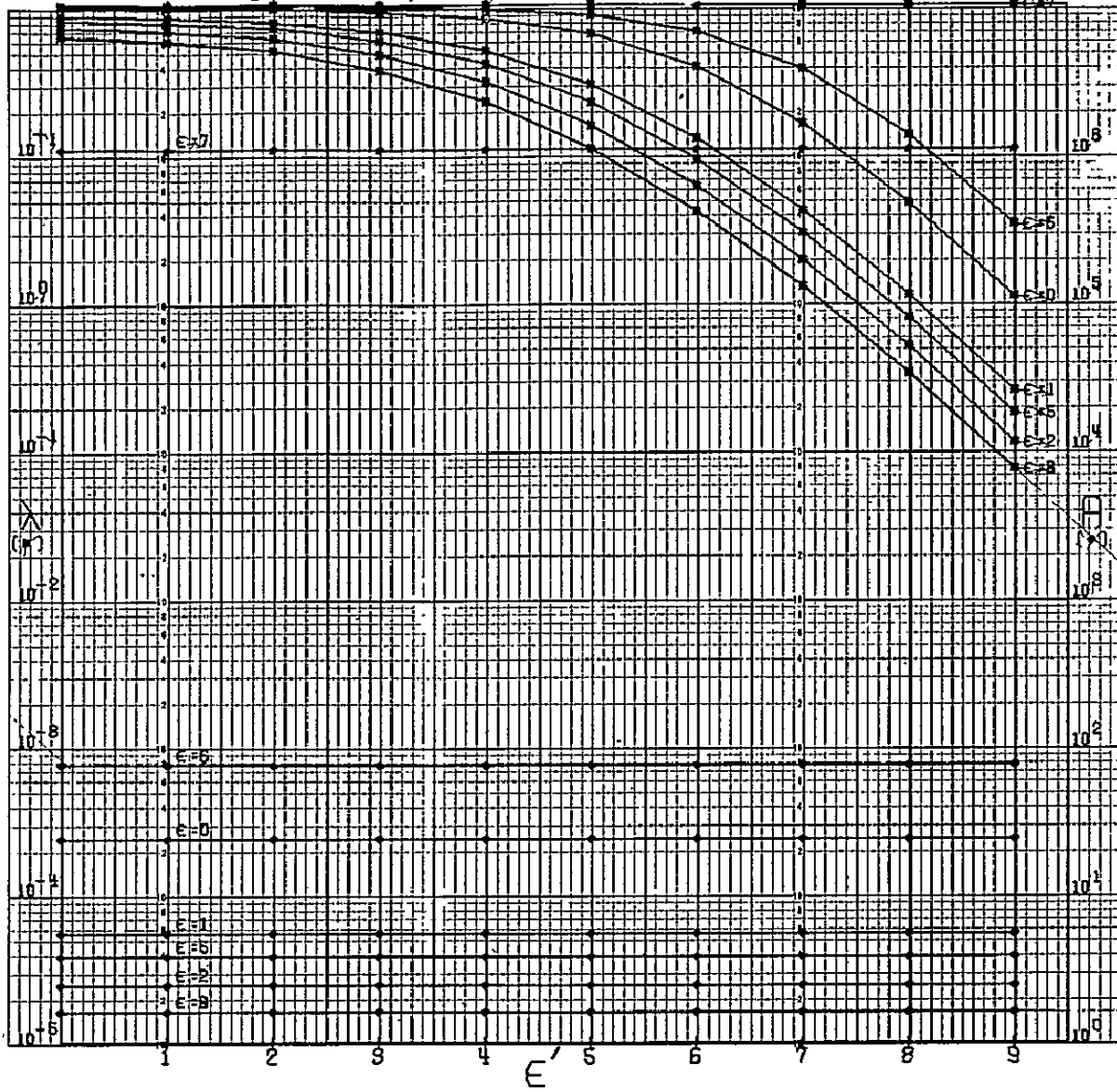
N=30

CODE 11110101111001100011000000
GSFO STANDARD

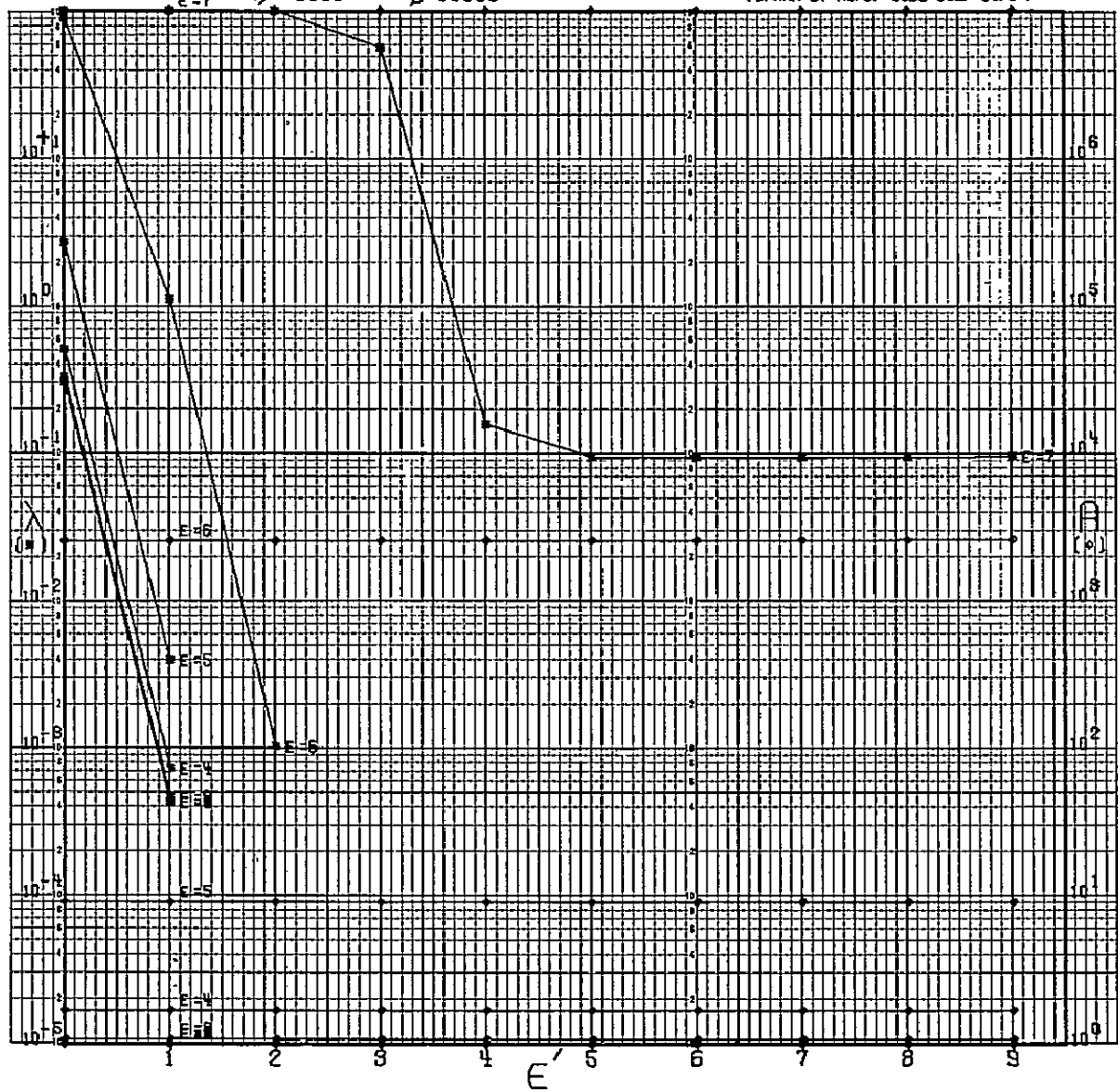
$\sigma = 1000$

$\beta = 5000$

(DRAWN BY ADP8, CODE 542, GSFO)



N = 80 CODE 1111101011110011000110000000
 GSFC STANDARD $\eta = .0001$ $\beta = 10000$ (DRAWN BY RSPB, CODE 542, GSFC)



N=30

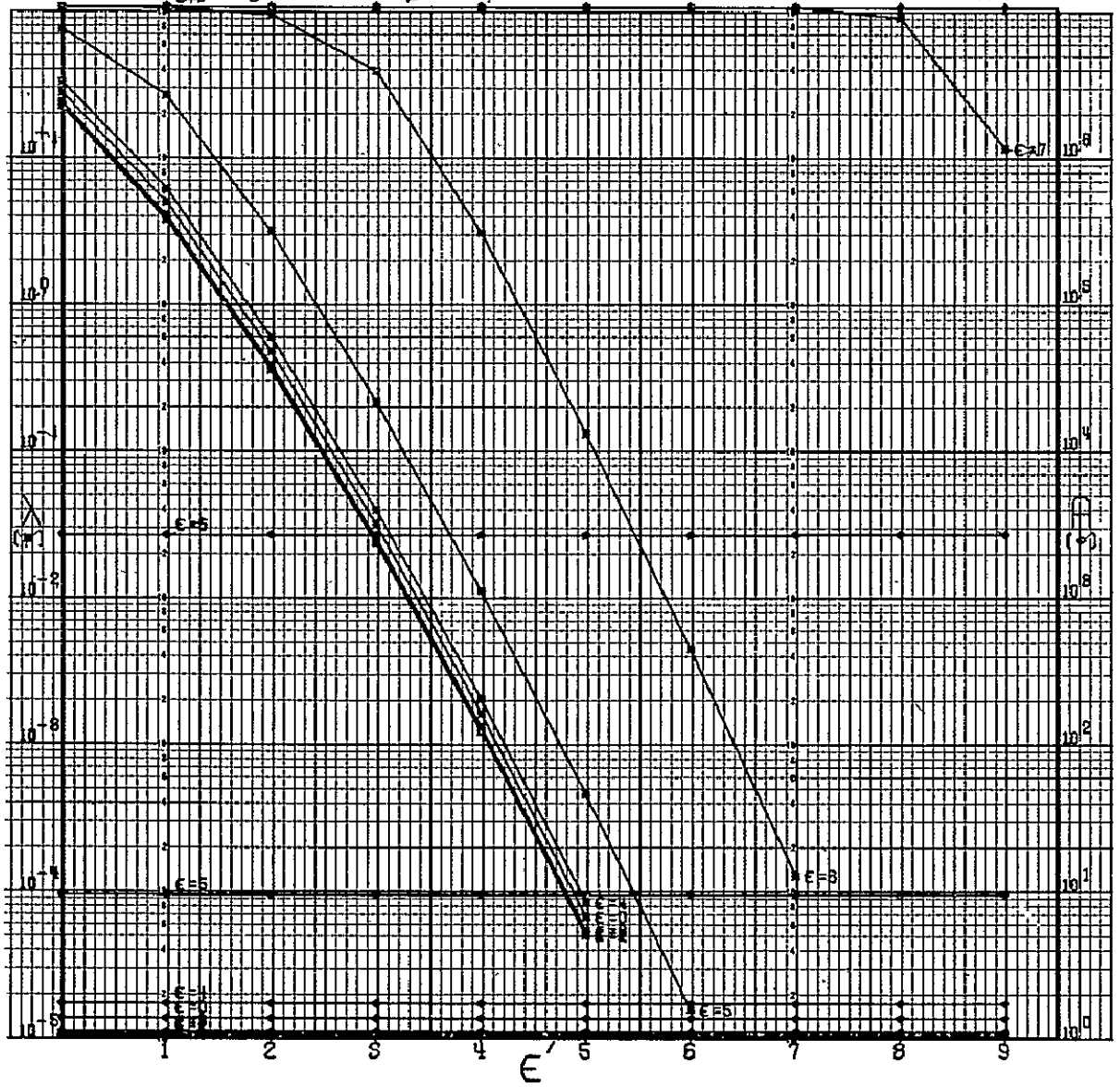
CODE 11111011110011000110000000

GSFO STANDARD

$\beta = 0.100$

$\beta = 10000$

(DRAWN BY ADRB. CODE 542. GSFO)



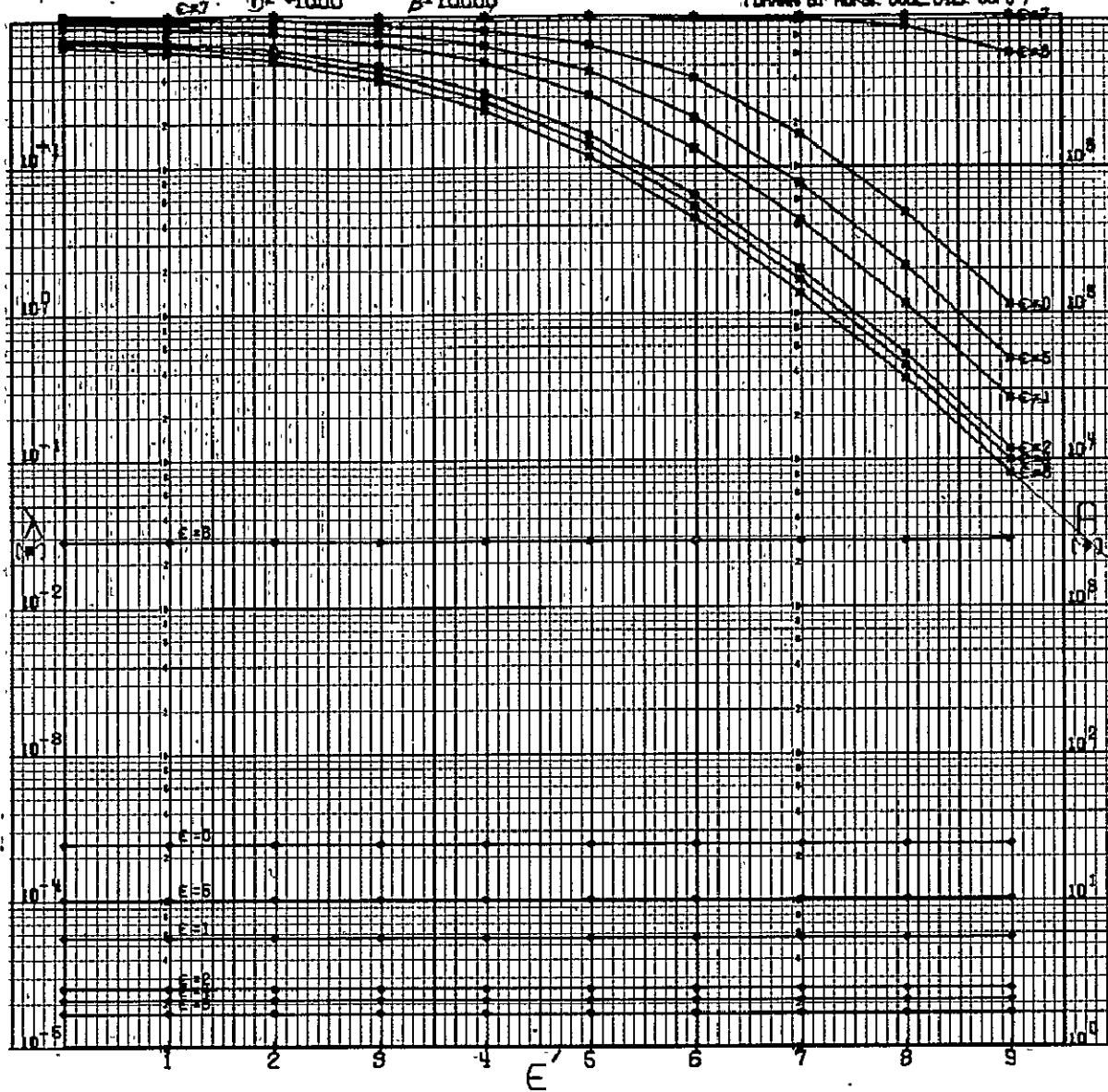
DATE 11110101110011000110000000
CITY STANDARD 1111000

GOLF STENOPEL

RF -1000

 $\beta = 10000$

(1 DRAWN BY ROSS, DODGE 542, 08F07)



CODE 1111101011110011000110000000
GSGC STANDARD 5-40001

$B=20000$

Figure 1 is a log-log plot showing the dependence of the parameter λ (in degrees) on the parameter E' for various values of E . The x-axis is E' (log scale, 0.1 to 10) and the y-axis is λ (log scale, 10^{-1} to 10^1). Four curves are shown for $E = 0.5, 1, 2, 5$. The curves show a minimum in λ around $E' = 1$ to 3 , depending on E . The curve for $E = 0.5$ is the highest, and the curve for $E = 5$ is the lowest.

A-767

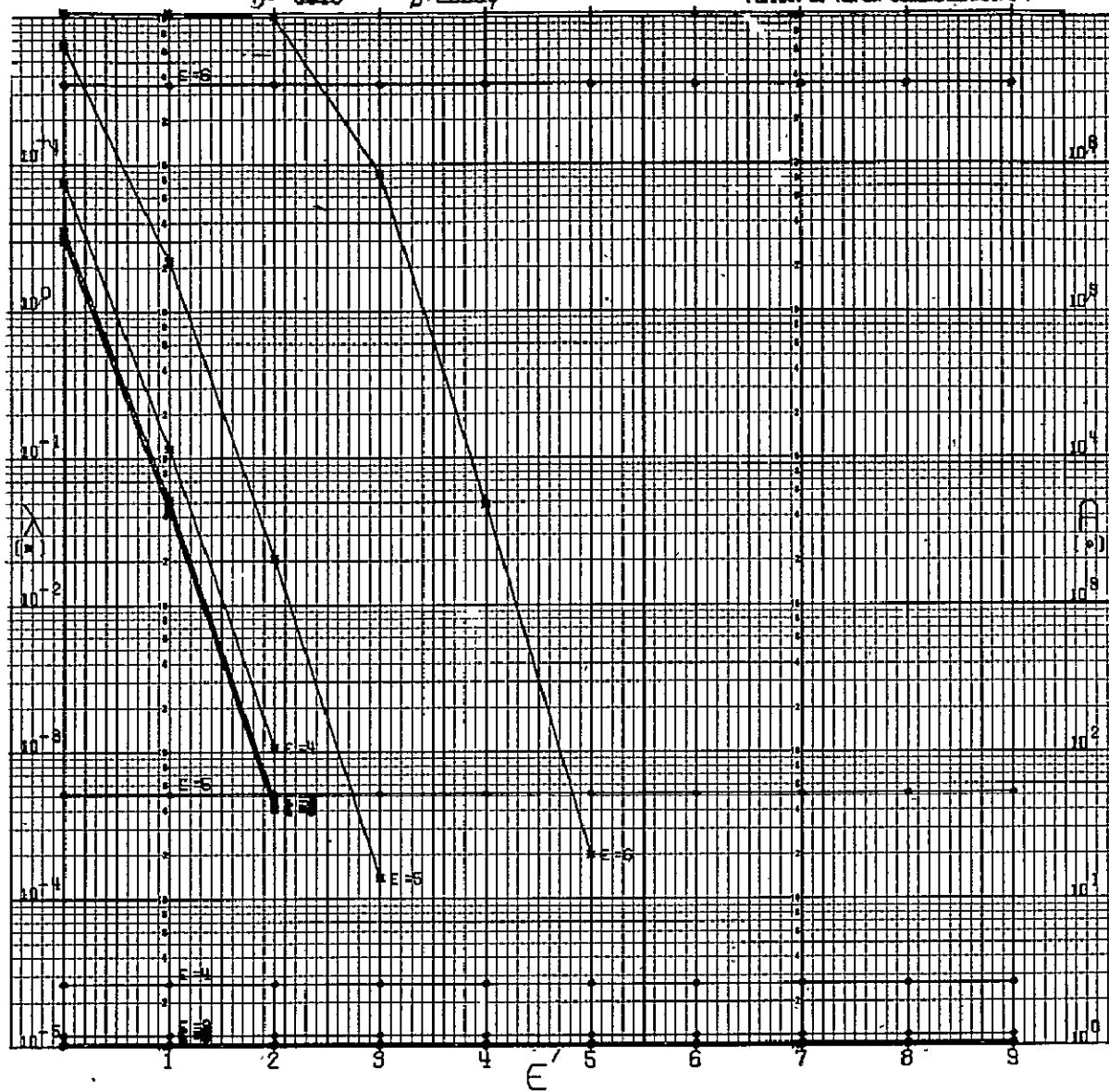
N=90

CODE 1111101011110011000100000000
GSFC STANDARD

$\sigma = 9010$

$\beta = 20000$

(DRAWN BY RSPB. CODE 542. GSFC)



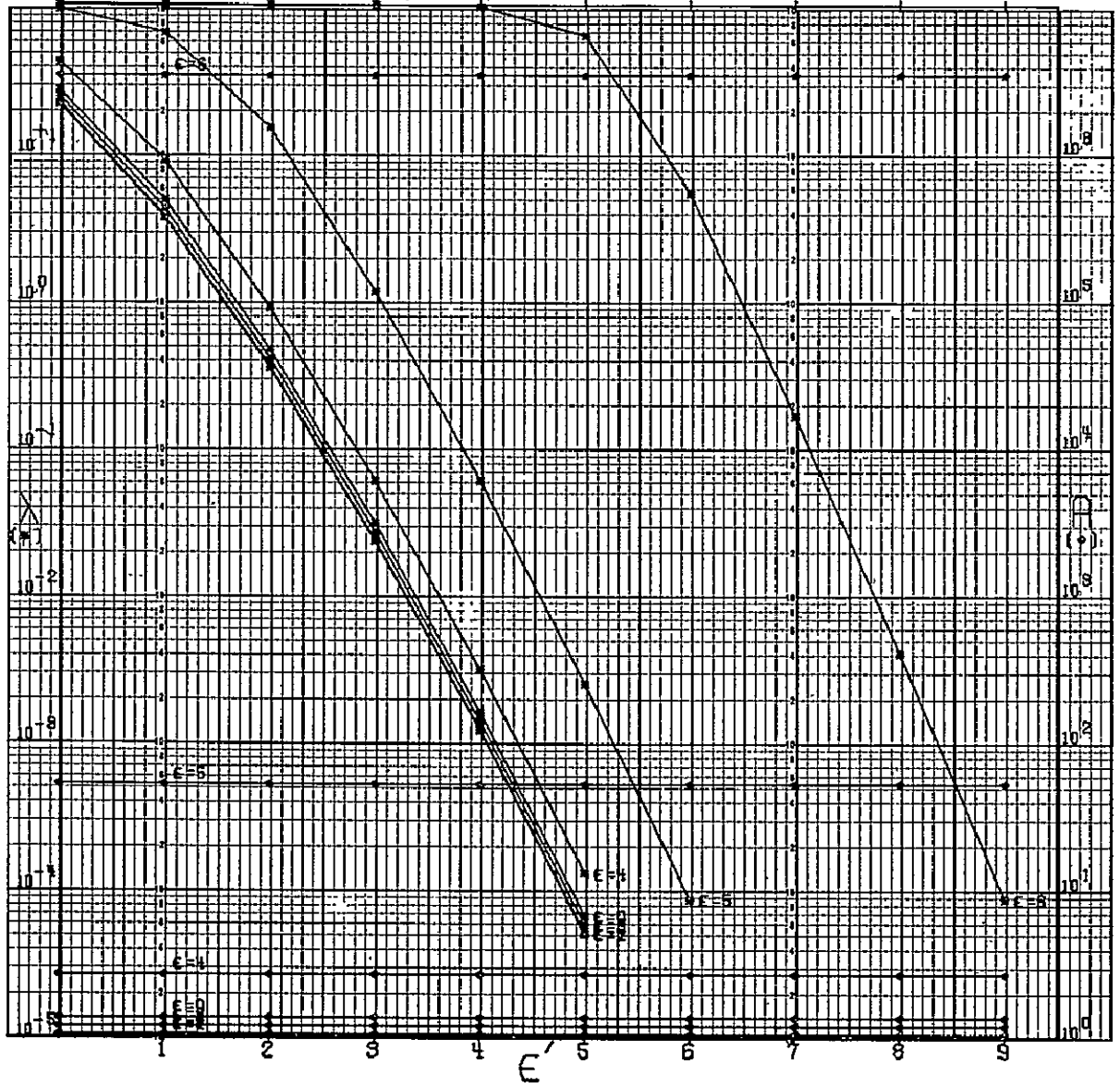
N=30

CODE 141101011110011000110000000
GSD STANDARD

$\sigma = 0.100$

$\beta = 20000$

NDRAWN BY ADPBL CODE 542. GSD.7



A-769

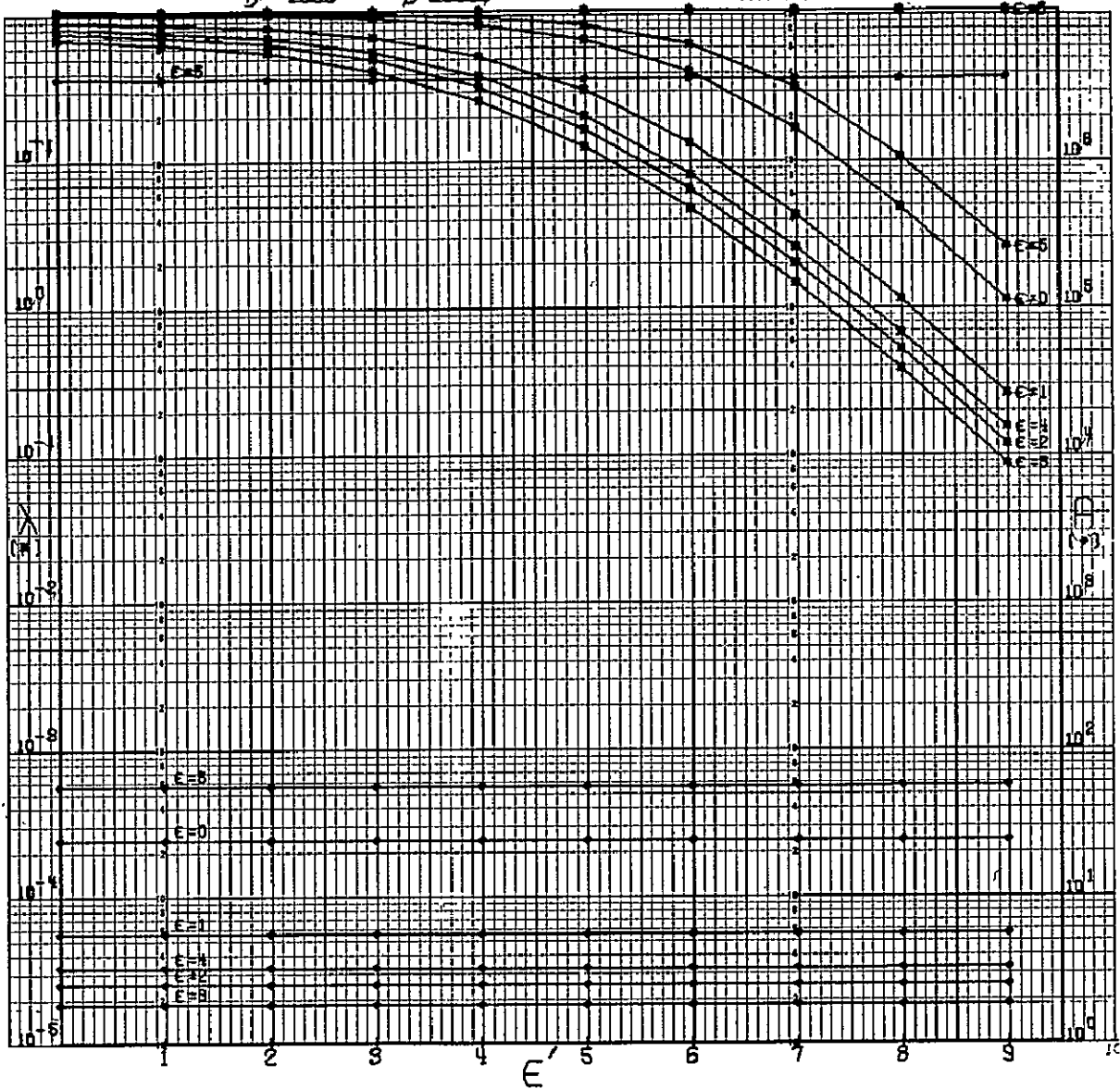
N=50

CODE 111110101110021000110000000
GOLF STANDARD


$D=1000$

$\beta=20000$

DESIGNED BY ROYAL CODE 542-05007



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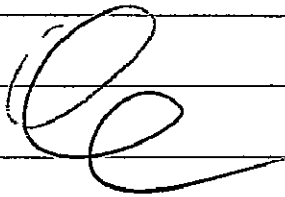
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